

DX News

•Serving DX'ers since 1933•

Volume 61, No. 26 - May 23, 1994 (ISSN 0737-1659)

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HCR	CPC Test Calendar	Date	0100 EDT
690		May 29, 1994	

From the Publisher ... Lots of good stuff inside, including complete details on the "alphabet shuffle," amongst various stations in Cincinnati. Those of you who have ordered a copy of the membership list and haven't yet received it ... I appreciate your patience. The next edition will be mailed after September 1, and Ken and I are working on adding the list to the Reprints catalog.

I received a complaint recently, but as often happens, the complainer had sent an item to the wrong address, which can add several weeks to return action. As we approach the summer months, let's remember that the NRC is a volunteer club and that important duties and responsibilities have been divided between a number of members. Now, every time that I remind members to check the back page for the proper address to which they should send items, the volume of renewal checks sent to Topeka (WRONG!) increases, for some reason. Nevertheless, check the back page for the various addresses; in addition, remember that station changes in AM stations should be sent to Jerry Starr and programming changes to Tony Fitzherbert, including those in newspaper clippings (their addressees are with their columns this issue); news of the radio industry should go to Pete Kamp (P.O. Box 73 - Bethel, CT 06801-0073); other clippings may go to Topeka. And thanks to all who continue to support DX News by sending items to me or to the various columnists. Also, don't forget to send status changes in stations to Jerry Starr, as the next edition of the NRC AM Log isn't very far away.

DXChange ... Charles C. Harrison - 3 Hollywood Lane - Lincoln, RI 02865-2213, (401) 334-2517 is selling his R-390A (you pick up). It's a Stewart Warner Nbr 1433, and he'll throw in copies of Hollow State News Letter, numerous NRC reprints,

and a Hallicrafters SX-62, all for \$325.00 ... A new publication is The Master Letter, which caters to MW experimenters, particularly those who broadcast with non-directional beacons. No subscription price is mentioned, so you might want to send Mark Burkart - 6713 Belllane Dr. - New Orleans, LA 70124 an SASE for a sample of the newsletter ... your publisher has a rather large selection of inexpensive 35 mm SLR cameras (most under \$75) which he'd trade for radio-related items, including collector-type things such as coffee cups, refrigerator magnets, and certain receivers.

Welcome to these new members ... Mario J. Stuttheim, Montauk, NY; Lawrence Davis, Kansas City, KS; Donna M. Gabriel, Philadelphia, PA; Alfred L. Hemmalin, Middletown, RI; James J. Corsiutto, South Bend, IN; Keith A. Belongia, Racine, WI; Shawn Hurlburt, Middletown, CT.

Remaining DXV Schedule, Volume 61

#	Deadline/Pub. Date	27 June 10	29 June 20	29 Aug. 5	Aug. 15
28.	July 8			30. Sept. 9	Sept. 19

DX Time Machine

From the pages of DX News:

50 years ago ... from the May 20, 1944 DXN: NRC President Joe Becker, the "Hamilton (Ohio) Night Owl", thanked members for their support during the past season and pleaded for more CPC workers to help Chairman Ernie Cooper.

25 years ago ... from the May 3, 1969 DXN: Another 32-page ... Musings editor Ernie Cooper requested that members observe the 30-line limit in their Musings, as the bulletin was tight on space

... from the May 24, 1969 DXN: Cleveland Ohio published a list of Colombian stations ... 10 years ago ... from the May 7, 1984 DXN: Ray Cole published a construction article for a regenerative preamp which he termed the "Knock-your-socks-off" amp.



2 AM Switch

Jerry Starr
s/o WHOT Radio
4040 Simon Road

Status changes in AM stations, supplied by the FCC and listeners
Youngstown, OH 44512-1320



CALL LETTER CHANGES

Old call	New call	Old call	New call
540 WSTH GA Columbus	WDAK	1230 WFTF GA Gainesville	WGCG
550 WLWA OH Cincinnati	WCKY	KMUZ OR Gresham	KKGK
600 WOKV FL Jacksonville	WPDQ	1240 WEKZ TN Knoxville	WTMZ
690 WPDQ FL Jacksonville	WOKY	1270 WHYD GA Columbus	WOAD
820 WRHA FL Largo	WYTA	1300 WXXI MS Jackson	KSDT
900 KICR LA Oakdale	KREH	1320 KHJ CA Hemet	WTGR
WKKW VA Staunton	WQK FL	Jacksonville	WAQZ
910 WDAK AL Pepperell	WTLM	1360 WSAT OH Cincinnati	WAQP
970 KCTR MT Billings	KDWG	1390 WKHF FL Avon Park	WAVP
1000 WTAL Huntsville	WDJL	1400 WOAD MS Jackson	WXKI
1010 KBIS AR Little Rock	KSYG	1430 WCKN IN Indianapolis	WIBJ
1030 KKSA CA Folsom	KIOQ	1470 WVBN SC Georgetown	WLBC
1050 WTLMA AL Alexander City	WRFS	1530 WCKY OH Cincinnati	WSAI
1060 WPMM MS Tupelo	WWZD	1550 KAPL CA Apple Valley	KWRN
1070 KRBE TX Houston	KENR		

APPLICATIONS/GRANTS FOR NEW STATIONS

None

APPLICATIONS FROM EXISTING FACILITIES

710 KUET AZ	Black Canyon City	change CP to U2
970 KNFX MN	Austin: night power to 4500 watts	
1220 WCHB MI	Taylor: powers to 50000/15000	

GRANTS TO EXISTING FACILITIES

680 CBQM NT	Fort McPherson: to 690 kHz (LPRT)
920 WYKD AL	Andalusia: night power to 40 watts, antenna to U1
1010 KLAT TX	Houston: night power to 3600 watts
1040 KURS CA	San Diego: night power to 63 watts (log shows 470 watts nights, a typo, was 47 watts, now 63 watts)
1130 WCXQ PR	Moca: power to 5000 watts
1230 KCBN NV	Gallatin: powers to 2300 watts (940 CH)
1250 WKBL TN	Reno: reduce powers to 820/820
1350 KCKC CA	Covington: reduce day power to 800 watts
1380 KILO HI	San Bernardino: night power to 600 watts
	Pearl City: CP powers to 6200/6200

OTHERNESS

610 CJAT BC

Trail: wall move to FM (95.7) and delete AM

640 WWVZ NJ Mount Holly: several interesting RUMORS are circulating about this

transmitter site; one is that they will return to the air by dipping into their present transmitter site; one is that they will return to the air by diplexing into the 4-tower system at WFTL-1460 and the other one has them being sold to KYW-1060 for a simulcast to fill in the deep null KYW has toward NYC (protecting 1050 kHz). We stress the word "RUMOR".

Jacksonville: silent as WEDQ is now ON THE AIR presently

simulcasting on their old frequency of 600 kHz with the old 690 calls,

WFTQ

Desert Hot Springs: CP for new station CANCELLED and call DELETED

Dedham: powers to 25000/50000 U4, city of license to Wellesley, MA,

relocate transmitter site

Edmonton: silent station (thought to be deleted) is ON THE AIR

Templeton: CP for new station CANCELLED and call DELETED

1070 WSCP NY Sandy Creek: station is SILENT

1110 KWSA OR West Klamath: station is SILENT

1150 WCEN MI Mount Pleasant: station is ON THE AIR

Notable: silent station is SILENT, towers and studios have been torn down to make way for a shopping center, their FM remains on the air and they expect the AM to return eventually as a non-directional daytime-only facility

Hughesville: station is SILENT

Fowler: silent station has been sold but the sale is contingent on the FCC

reinstating their expired CP for move to 1210 kHz.

Fort Franklin: change name of city to Deline, station will soon move to

105.1 FM and delete AM

Columbus: silent at WHYD is now ON THE AIR

Liberia: reduced night power of 30 watts and U1 antenna is ON THE AIR

Nashville: 10000 watt day power is ON THE AIR

Wishek: application for 253/108 U1 is DISMISSED

Searston: will move to 93.7 FM and delete AM

Presque Isle: silent as WIMS, is ON THE AIR

Ajax: requests 93.7 FM and delete AM

St Paul: in the last issue when this station left here is was on 1400 kHz

but somehow by the time it appeared in DX News it was magically transported to 1530 kHz. Wrong! It's still on 1400 kHz. How this happened is a puzzlement. (Another one of the publisher's ignorant

errors? -ps)

Maumawili: station is SILENT

Edmonton: station is in hearings for possible move to FM at which time

AM will be deleted

Haiku: station is SILENT

Punta Gorda: CP for 670/350 U4 is ON THE AIR

Revelstoke: new Canadian "Weatheradio" service is on the air here with

a pretty good range, can be heard on portable radios in downtown

Edmonton. The Atmospheric Environment Service which runs this

prototype reports they already have one on the air in Sicamous, BC on

1260 kHz as well as Castlegar, Vernon, Penticton and "a few around the

coast" but no frequencies were given. These could be quite DXable.

THANKS: Wayne Heinrich, Ed Krejpy, James Dale, Brian Vernon, Shawn Axelrod, Dave Schmidt, Hank Holbrook, Andy Rugg, John D. Bowker, Al Merriman, Martin Manetta, Dick Trux and M Street Journal

73 and Good DX,

Jerry Starr & Buffalo K. Foonman

Steve
Wlam

Bath Brunswick 730 AM
Portland 870 AM
Lewiston Auburn 1470 AM

IRCA Mexican Log, 3rd Edition, Now Available!

After months of preparation, IRCA has published the 1994 edition of the IRCA Mexican Log.

The log lists all AM stations in Mexico by frequency, giving call letters, state, city, day power, night power, slogans, schedule in

UTC/GMT, formats, networks, and more. Stations that have changed frequency since 1990 are cross-referenced on the old

frequency.

The call letter index gives call frequency, city and state. The city index (listed by state, then city) gives frequency, call, day and

night power. There is even a guide to the Spanish alphabet and numbers.

The log has been completely updated from the 1990 edition and carefully crosschecked by IRCA members in Mexico and the

U.S. This will be an indispensable reference for anyone who hears Mexican radio stations.

The price, payable to IRCA in U.S. funds, is \$20. IRCA/Mexico/Serial #7 rest of the Americas annual

\$7.50 Europe/Australia annual, \$8 Australia/New Zealand annual, \$10 Australia/New Zealand annual.

Order from Phil Bytheway - IRCA Bookstore - 9705 Mary N.W. - Seattle, WA 98117.

Domestic DX Digest

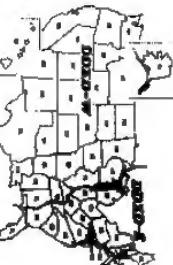
West: Bill Hale

495 Creekview Drive • Meridian, ID 83642-3241

East: Dave Braun
11 Mill Bend Acres • Wyoming, DE 19934-9523

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between East
and Central
time zones)



Prodigy Address: MTFH12A@Prodigy.com
Internet: MTFH12A@Prodigy.com

DDXD-W

MEDIUM WAVE RAMBLINGS

Prodigy Address: MTFH12A@Prodigy.com

Internet: MTFH12A@Prodigy.com

REPORTERS

Doug Smith Nashville SuperRadio 2 barefoot or 1990 Ford Escort caradio w/LCD

backlight burned out

Doug Smith same 1990 Ford Escort caradio w/LCD backlight burned out driving

among the swamps along the Cumberland River just north of Ashland City

Eric Buusenam, NUTH Hazelwood DX-200, TM-152, SW2

Shawn Axelrod Winnipeg ICOM R-70 w/PLAM board & 0.5, 2.4 & 4 kHz filter + 4'

SA-MO SA-MB

SA-ME1
SA/WMR

Somebody DXing from Swan River, Manitoba with the R-70 and a Quantum Loop
(Northern Lights still available for birthdays, weddings, bar mitzvahs, etc.)
Shawn Axelrod & Wayne McRae Valhalla Beach, MB ICOM ICR-70 w/PLAM
board and filter mods

FA-ID DE-MO
JW-OR
GH-KS
JW-CO
GC-NY
BA-GA
CK-CO1
CK-CO2
CK-CO3
CK-CO4
CK-UT1
CK-UT2
CK-DXing at Dillon 1992 Toyota rx, GE Superadio III + whip
CK-DXing at Parchute 1992 Toyota rx, GE Superadio III + whip
CK-DXing at Crescent Junction 1992 Toyota rx, GE Superadio III + whip
CK-DXing near Gallup 1992 Toyota rx, GE Superadio III + whip
CK-DXing at San Bernardino 1992 Toyota rx, GE Superadio III + whip
CK-DXing at El Paso 1992 Toyota rx, GE Superadio III + whip
CK-DXing at Springville SX-110, Hy-Gain 18HT
DR-HI
Ed-ID

Chris Knight DXing at Idaho Springs 1992 Toyota rx, GE Superadio III + whip
{Who didn't trust the E-Mail and followed it up with a letter, hi - Ed!}

Bill Alsauskas Douglasville via EB-MO's Prodigy Hotline
Chris Knight DXing at Idaho Springs 1992 Toyota rx, GE Superadio III + whip

CK-DXing at Georgetown 1992 Toyota rx, GE Superadio III Antenna + whip

CK-DXing at Ratona 1992 Toyota rx, GE Superadio III + whip

CK-DXing at San Bernardino 1992 Toyota rx, GE Superadio III + whip

Jon Ellis Maple Grove Sharp 8-band
Doug Beard Springville SX-110, Hy-Gain 18HT

Dale Park Honolulu
Editor Meridian = newswire sources

SPECIAL

KB Radio 1520

HOLD ON, HERE WE GO...

550 WCKY OH Cincinnati - Station is now here. Ed-A-GA

"WCKY" OH Cincinnati - 5/5 - Now with talk format consisting of local talk 5-9 am, *ley Brown* 9-12, *Rush* 12-3, *Liddy* 3-6, a local cooking show 6-7, something called *At Your Service* 7-8, *Bruce Williams* 8-11, *Bohannan* 11-2, *Rush* 2-5. The call must still be WLWA since 1530 is still legally WCKY. (JE-MN)

580 KFDO ID Nampa - Carries weekend games of the Seattle Mariners. [Ed.-ID]

590 WGNE FL Panama City - Now all Sports. (BA-GA)

595 KYC ON Toronto - See 1430.

620 KTKT CO Grand Junction - 4/8 1558 - In break from *Dan and Mike Show* with slogans "The New Talk 620 KTKT, K-Talk 620 and The All-new K-Talk 620. Ex: KSTR. (CK-COM)

630 WBMO GA Savannah - Report sent to address as in NRC Log (One Riverview Road) returned as "no mail recipient". Isn't this illegal under FCC rules? Need help with an alternate mailing address. (EB-MO)

KIDD ID Boise - Has dropped the *Bohannon* show in favor of SEN Sports from 9000-0400, then Art Bell, HI 0700, followed by *America In The Morning*, then local news/talk to Rushtime. Also carries more hours of sports on the weekends, so that format is moving in here, too. (Ed-ID)

WDGY MN St. Paul - Per report on Fido-Net, is off the air and their 6-tower array is being dismantled. The land has been sold to an insurance company. These guys are dropping like flies! (Ed.-ID) And now we get the latest from our Minnesota reporter. Over to you, Jon...

The rumor is right. WDGY went off the air on 4/15 after Midcontinent Media sold the transmitter site to State Farm Insurance to build a new office complex. A newspaper article says the owners intend to bring WDGY back on the air, but they have to find a new site, rebuild everything, and decide on a new format (the Nostalgia format was being run by the owner of WMN-740, which leased 630). They say 6-8 months minimum. I don't think they have much commitment to an AM station in this market if they sold the old transmitter site without having any idea where the new one will be. (JE-MN)

KSL MO St. Louis - Per report in the April 14 St. Louis Post-Dispatch, Legend Broadcasting (who will retain KXOK-FM 97.1 in suburban Florissant) has sold the station to Crawford Communications (KLZ-560 Denver, CO, KLJT-880 Brighton, CO), and the station

is planning to switch to either Contemporary Christian or Southern Gospel shortly. Silence was expected to last until at least 4/18. (EB-MO with help from Earl Higgins).

Overnight programming is BBC World Service. (DB-IA)

670 KBOI ID Boise - Has picked up the weekend CBS Baseball Games of the Week, although they remain with ABC for the main network. [Ed.-ID]

690 KTCL MN Minneapolis - MBD Broadcasting and Chancellor Communications (owned by the same individual) out of Dallas, Texas are acquiring 11 radio stations from American Media Inc., including this station and KTCL's FMer, KTCL, for \$150 million. This transaction, one of the largest since the Federal Communications Commission relaxed ownership restrictions of radio stations, is subject to FCC approval. MBD which does not currently own any radio stations, is also acquiring WUBE-AM & FM and WGY-FM in Cincinnati; WALK-AM & FM in East Patchogue, New York; KMEN-AM and KGGL-FM in Riverside/San Bernardino, California; and WOCL-FM in Orlando, Florida. Chancellor, which currently owns KFBK-AM and KGBY-FM in Sacramento, is acquiring KHYL-FM there. [Ed.-ID]

710 KMPC CA Los Angeles - Capital Cities' ABC Inc.'s KABC Radio Inc. has signed a definitive agreement to buy KMPC, owned by Golden West Broadcasters. Golden West is owned by my favorite cowboy, Gene Autry (sorry Roy) and his wife. It looks like KMPC will probably be switching to a "Hot Talk" format, geared towards 18-34 year-olds around the first of May. This will be in direct competition with KFI. The fire is already being stoked as former KFI and WRKO personality Tom Lewis will be starting on KMPC in Afternoon Drive around May 9th. Incidentally, Gene bought KMPC in 1952 for \$800,000 and is selling it for \$20 million. [Ed.-ID**]

750 WSB GA Atlanta - Has snatched the contracts for the Atlanta Hawks and Atlanta Braves from WGST-640 / 105.7. Hawks coverage to begin with the 1994-95 season, Braves with the 1995 season. Also, WSB's owners (Cox Broadcasting) are also attempting to buy WJZA-104.1 La Grange, GA. (BA-CGA)

930 KMFM NE Grand Island - Has moved to 3250 Woodbridge Blvd Suite 200, per v/l. P.O. Box and ZIP are as in Log. (GH-KS)

790 KJPN HI Waipahu - 519 - Is now all Japanese programming with these CLs, after a buyout by local and foreign businessmen. IDs as J-94. Ex: KDFO & C&W. (OP+ID)

970 KVMW AZ Show Low - 4/12 0900 - Noted several times with what seems to be a new EZL-type format. Some selections almost classical. Good on peaks this day, over/under ORM. Also noted 4/7 0934 with ID: With more Standard AM coverage than any other Newjo or Apache County radio station, this is KVMW-AM and FM, Show Low. (JW-CO)

990 KXXX MN Richfield-Minneapolis - Has not gone silent, at least as of 5/4. I expect them to go silent when KEQE-93.7's sale is final. (JE-MN)

1000 KKM NM Albuquerque - 4/9 2131 - Apparent format change to C&W music. Ex: REL (DE-MO)

1060 WPHC TN Waverly - While scanning FM I heard WVRY-105.1 run a dual ID with WPHC-1060. Checking AM, WPHC is indeed now simulcasting WVRY-105.1 with satellite oldies. (DS-TD)

1120 WKOW PA Oil City - Now AC (seemingly satellite-delivered) and IDing as 1120 KQW. No longer // FM 96.3. (GC-NY)

1130 WWWWWI Detroit - Article in Billboard magazine says WWWWW will go all sports in June. (JE-MN)

1140 KPWB MO Piedmont - 4/2 1259 - With Southern Gospel music, ad for local church VID. Change from AC format. (DE-MO)

1230 WUBE OH Cincinnati - See 690 KTCL.

1250 KDIZ MN Hutchinson - Adds AC and Country to its Oldies format. (JE-MN)

1270 WTMQ GA Columbus - Station is now back, with SS format. Ex: WHYD, Contemporary Christian. (BA-GA)

WXYT MI Detroit - Taken over by Infinity Broadcasting. [Ed.-AD1]

1290 KMEN CA San Bernardino - See 690 KTCL.

WPCF FL Panama City Beach - Now travelers' information. (ED-MO)

1330 WFPL PA North East - With talk. Ex: 1550 and WEYZ (Erie). (GC-NY)

1360 WXAL OH Cincinnati - 4/29 Midnight - Fair-to-poor, with KSCJ/KAHZ/WGCE, with legal ID. Sound like a News/Talk format Ex: WSAI (which moved to 1530). (EB-MO)

KRYS TX Corpus Christi - Now carries SEN Sports 24 hour, per announcement on network. [Ed-ID]

KAHZ TX Fort Worth - 4/28 2258 - Fair-to-poor with KSCI/WGEE/KHAK with contest winner, Radio Oz promo, into Kids' programming. (EB-MO)

1370 KKSI CA San Jose - 4/26 - Back on the air with a sort of easy listening/big band combo with live DJs, an occasional live local newscast, and Metro Traffic. KEEN, country music since 1946, was taken down January 1, 1993 because the estate of the original owner of the station and land decided they could make more money with the land than with the station. The land will become an office park. So, the staff was told to go out and find a place to put it back up. But where do you put 3 towers in Silicon Valley? So, the station was moved to the KSJX-1500 transmitter site and a new 4 tower array was designed using the existing 4-tower directional array of KSJX. [Ed.-ID*]

1370 WALK NY East Patchogue - See 690 KTCL.

1430 GCL ON Toronto - Has applied to the CRTC to buy CKYC, and move to 590. Telemedia Communications executive vice-president Don Pagruth said Telemedia's flagship radio station, The Fan, an all-sports radio station, operates on 1430 with limited coverage to areas outside of Metropolitan Toronto. He said acquisition of CKYC will allow The Fan to reach a larger potential audience. He added that a decision hasn't yet been reached on the disposition of The Fan's current frequency. [Ed.-ID*]

1440 WPRS IL Paris - is now C&W // their FM, WACT 98.5. (GC-NY)

1450 KLOV ID Payette - 5/1 - Has returned to the air with SS programming. Frank and I have egg on our faces. hi. [Ed.-ID]

1470 KBCW MN Brooklyn Park - 4/26 2210 - Good with Music of Your Life on 14, KLBB into NOS/BBD music. Now // KLBB-140 St. Paul. (SA-MB)

1530 WCKY OH Cincinnati - 4/13 2213 - Good with continuous loop announcing WCKY is now on 550. WCKY ID at 2300. (SA-MB)

WCKY OH Cincinnati - 4/12 2013 - During break in Kalamazoo vs. Cyclones minor-league hockey, with call ID as 1530 WSAI. Not a legal ID, as I believe calls are still actually WCKY. Earlier in the week, I've also heard canned preachers and a tape loop directing Rush Limbaugh and G. Gordon Liddy listeners to 550. (DS-TN)

WCKY OH Cincinnati - Drops News/Talk for local programming 0600-1800, then Unistar AM Only 1800-0600 as WSAI. Also drops CBS News for NBC. Legal ID is still WCKY. They've still got a 7-second delay from the talk format. There's also talk of moving Limbaugh to WLW-700. (JE-MN)

WSAI OH Cincinnati - 4/14 2200 - With adult standards music, WSAI ID. Ex: WCKY. New call and format. (SA-MB)

WSAI OH Cincinnati - 4/28 2212 - Very good with Unistar AM Only feed, AM 1530 WSAI ID, mention of the above date being Kiss Your Mate Day, local ads. NBC News noted at 2300. Ex:1360. (EB-MO)

[There has been big switcheroo of call signs and formats in the Cincinnati market. IACR, WLW's owner, is buying WCKY (and it's FMer). How 1360 got into the mess . . . ??? I picked up some on this, first off of Fido-Net and later off the biznews wire. 1360 was mentioned in a story as joining the Children's Radio Network (Orz) out of Minneapolis. WCKY's news/talk programming was to go to 550, and 1530's format was rumored to be NOS. What is happening to "WLWA" and how all the call letters will end up out the shaker is still to be seen, and heard, by you guys back east. Jerry Starr will, no doubt, have it all sorted out in AM Switch. [Ed.-ID]

WEYZ PA Erie - With standards music. Ex: 1330 and NOS (North East). (GC-NY)

1540 WFNE OH Niles - Is now formatted as Comedy. Ex: UC. (GC-NY)

KZLA
93.5 AM Stereo

UNIDS and UNID HELP
AM 1200

750 UNID ?? - 4/19 0715 - With IRR. Gone by LS. KOALZ (JE-MN)

770 WXEJ? ?? - 4/11 2227 - Sounding Mexican (SS announcer, XE music), but as 2302 heard a definite Dobie-a-equis-eh-ho. Might have been a mention of a network affiliate during top-of-hour news break. Looping SSE. (JW-CO)

790 UNID ?? - 4/6 0713 - Fair, in QRM, with traffic, weather, 93 Q slogan. Looped SSE. Suspect KKBO. (JW-CO)

1190 KMFX MN Wabasha - A match for SA/WMGR (Issue 24), per my FM Atlas. (GH-KS)

1260 UNID ?? - 3/27 0630 - Poor with NOS music. Heard during WNRK test. (SA-MB)

1400 UNID ?? - 4/1 0658 - Fair with EZL music, dual ID as WRUU and W77 into CBS News. (SA-MB)

1480 UNID ?? - 4/15 0530 - Fair with heavy rock music. Faded up for 10 minutes. (SA-MB)

1530 UNID ?? - 5/2 1700 - Someone testing with intermittent tones, making it hard to hear Cincinnati's Legal ID. Could be any number of daytimers on this frequency. (UE-MN) [At 1700!!? Maybe one of the "silents" or a newie getting ready to come on? - Ed.]
 1656 0171 ?? - 11/23 2400 (an oldie but goodie) - UNID by Bruce Winkelman in issue 11 is probably a fishing net buoy. This, and next, two attributed to a list of stations between 1610 and 1800 kHz in the Grove Shortwave Directory. (SA-MB)
 1657 KAS ?? - 11/24 0004 - Definitely a fishing buoy beacon. (SA-MB)
 1663 B468 ?? - 11/23 2127 - Also a fishing buoy beacon. (SA-MB)

DX AND EQUIPMENT TESTS



550 KOAC+ OR Corvallis - 3/28 0330-0400 - Fair signal with CID, VIDs and Stars and Stripes forever. (FA-ID)
 KOAC- OR Corvallis - 3/28 0330 - Not heard. Only KYR & KCD. (SA-MB) Not heard. Just KBOW/KTSA/KOY/+/- and some KLZ-560 splatter. (JW-CO)

780 WWOL- NC Forest City - 4/4 0300 - Nothing due to massive Northern Lights display. (SA-MB) Nothing heard. (FA-ID) No dice. Just WBMM/KKOH/noise. (JW-CO)

820 WWAM-TN Jasper - 4/2 0030 - Not heard. CHAM, WBAP & CKJS splatter only. (SA-MB)

930 WLBL WI Auburndale - 4/8 0230 - Fair signal, good copy with TTS at 0229, 0231, 0238 and 0239. New. (SA-MB)

1230 KMOH IA Marshalltown - 4/17 0100-0130 - Nothing heard. (FA-ID)

1240 KCCR+ SD Pierre - 4/4 0103 - Fair-to-poor with one full CID and parts of others. Unneeded. (JW-CO)

KCCR- SD Pierre - 4/4 0100-0130 - Nothing heard. (FA-ID)

1260 WNIRK DB Newark - 3/27 0000 - Extremely tentative with tones at 0203. WNDE and KTM there. (SA-MB)

WNRK- DE Newark - 3/27 0000-0030 - Nothing heard. (FA-ID)

1270 WCGC- NC Belmont - 3/27 0300 - Nothing heard. (SA-MB)

1300 WQPM-MN MN Princeton - 4/11 0130-0200 - Heard what may have been some tones, but unable to identify. (FA-ID)

WQPM- MN Princeton - 4/11 0130 - Not heard. Only XEP & others in background. (JW-CO)

1450 KVOW- WY Riverton - 4/11 0210-0220 - Nothing heard at this time. (FA-ID)

1570 KCVR+ CA Stockton - 3/28 0300-0330 - Heard several CIDs, VIDs including echo chamber. A better test than last time. Good signal. (FA-ID)

KCVR+ CA Stockton - 3/28 0308 - Fair-to-poor in QRM with several CIDs, one VID noted. New, for CA #86. (JW-CO)

KCVR- CA Stockton - 3/28 0300 - Nothing from them, as CKMW too strong to hear a test. (SA-MB)

TTS & OTHER STUFF

530 WTBN521 CO Central City - 4/8 1227 - Fair w/info on Central City, ID: Central City Travel Radio slogan. Loop tape. (CK-CO1)

WTBN524 CO Georgetown - 4/8 1227 - Info on Bighorn Sheep. ID, Loop tape. (CK-CO2)

TIS CO Breckenridge - 4/8 1303 - Good w/ski info, etc. Does not ID. Welcome to beautiful Breckenridge. (CK-CO3)

KNCN250 CA San Bernardino - 4/13 0240 - Good w/ID, Highway Advisory Radio, mention of being operated by "Caltran". Another STN under. (CK-CA)

WNTW970 NM Fort Wingate - 4/17 2215 - Good w/Loop tape narrated by Ricardo Montalban, with history of the immediate area - very interesting! ID. (CK-NM1) [De plane, De plane!] - Ed.]

WNWE971 NM Raton - 4/18 1620 - XLNT in passing w/Loop tape narrated by Ricardo Montalban, similar to the TS at Ft. Wingate. ID. Long loop tape. (CK-NM2)

1610 KOP218 UT Crescent Junction - 4/8 1526 - Loop tape, ID, sign on HWY, info on SE UT Parks. (CK-JT1)

TTI UT Fremont Indian State Park - 4/9 1210 - Loop tape, info on park, never ID'd. (CK-UT2)

MIDNIGHT TO 0800 HOURS ELT

550 KMMV HI Wailuku - 4/18 0526-0602 - Fair with Portuguese music. Sounds of Portugal with DJ speaking HE. IDs at 0530 and 0600. Formal sign-off with SSB at 0602. (JW-OR)

0800 TO 1600 HOURS ELT

620 KKTK CO Grand Junction - 4/8 1558 - Break from Don and Mike Show on The new Talk 6-20, KKT, plus slogans *K-Talk 6-20 and The all-new K-Talk 6-20. Ex: KSTR. (CK-CO4)*

810 KXOI TX Crane - 4/12 0802 - Female with HE/SS ID: This is KXOI Crane-Odessa-Midland. Esta es *kah-epis-oh-e*, Crane-Odessa-Midland, La Nueva Radio Alabanza and into

more SS religion programs. Think Radio Albariza is a new slogan. Heard several times previously, but didn't know who it was. (JW-CO)

1470 KNXN AZ Sierra Vista - 4/7 2100 - Local ads, female DJ giving request line number as 459-1470, 2102 cannot ID. 4/7 24 hours-a-day and Kickin' KNXN Sierra Vista, the new Hot Mir 1470 and into AC-type music. Fair on peaks with QRM. (JW-CO)

KDHN TX Diammitt - 4/9 0925 - Ag features, two announcers chatting about farm stuff. Ad for local car dealer. Fair, over/under QRM. (JW-CO)

1520 WHOW IL Clinton - 4/5 1544 - With farm news, C&W music and VID. IL #30. (DE-MO)

620 WSUN FL St. Petersburg - 4/10 2119 - Good-to-fair mono and Stereo signals, over WRIZ, with local ads, *The Best of The Mad Dog* talk program. Local KXOK-630 off. (EB-MO)

630 WJDZ AL Thomasville - 4/9 2016 - Good-to-fair, with WAVU/WEMQ/KVMA, with full-data sign-off. Local KXOK off. (EB-MO)

680 WCNN GA Atlanta - 4/17 1931 - Fair-to-good with Atlanta-Milwaukee minor-league hockey. (Milwaukee leading 3-2; go Admirals). Slogan Sportsradio *The Fan* - is there a call-sign change here? (DS-TN*)

WCAW WV Charleston - 4/1 2100 - With satellite NOS music. Called themselves CHS-MO) Sears Siding seemed to be the only sponsor. Finally got a VID. Called them, and found the number was changed to that of WCHS-580 Charleston. Not bad for 250 watts!! (DE-MO)

700 KSEV TX Tomball - 4/10 2122 - Well over WLW, in very auroral conditions, with sports talk & many Houston-area ads. (DS-TN)

890 WLS IL Chicago - Trivia answer! The mystery station once known as WJR became The Big 89, WLS. This tidbit from an article in the *New York Times* dated June 1, 1924. (Ed.-JW-CO)

930 KCCC NM Carlsbad - 4/9 2309 - Latin music on *Varietades Musicales* program. Female DJ with requests at 887-5521. Fair with QRM/QSB. (JW-CO)

960 WPKT KY Prestonsburg - 4/17 2000 - Poor, over/under someone with the Atlanta-Milwaukee hockey game // WCNN-80 with end of syndicated oldies show, then ID with 105.5 FM (WXKZ) & a Williamsburg station. New. Suspect interfering station was unneeded WRFCC-GA. (DS-TN*)

1040 KGGR TX Dallas - 4/5 2035 - With UC-type gospel. Superior signal compared to WHO. Very liberal on VIDs. TX #27. (DE-MO)

1050 KRLD TX Dallas - 4/10 2100 - Legal ID including satellite coordinates! (too many static crashes to copy what the coordinates were) (DS-TN)

1200 WOPA IL Chicago - 4/5 1826-55 music Blue Boyce. Mentions of Chicago. (DE-MO)

1220 KOMC MO Branson - 4/1 1942 - With ad for Osmond Brothers show, then VID. (DE-MO)

1260 WTHR GA East Point - 4/1 2143 - With UC/Gospel, ad for an Atlanta church, then VID. Log shows only 39 nightime watts! (DE-MO)

1270 WWWI MN Baxter - 4/26 2147 - Fair with ads for a bank and other merchants in Baxter. Into oldies music. New! (SA-MB)

1290 WCBL KY Benton - 4/1 1857 - With many mentions of Marshall county, then ID. (DE-MO)

1360 KGME AZ Glendale - 4/8 2100 - SID, then female with sports headlines. EX: KNNS. Rough with KHCN/etc. (JW-CO)

KHAK IA Cedar Rapids - 4/28 2205 - Fair-to-poor, with KSCJ/WGEE/KAHS, with C&W music, CLs and local ads. (EB-MO)

1380 WKBQ MO St. Louis - 3/30 1943 - Fair, in fade-up over KLIZ, with Q-104 DS, CHR/UC music. New call. (SA-MB)

1460 KDMD IA Des Moines - 4/7 2246 - With REL programming. Been trying for this one for some time! IA #18. (DE-MO)

KLTC ND Dickinson - 4/9 2018 - Minnesota Twins baseball ppp, and legal ID at 2029. Fair in QRM/QRN. (JW-CO)

1500 KDFN MO Doniphan - 4/5 2012 - With NOS music and VID. A real surprise! (DE-MO)

1570 CHLO ON St. Thomas - 5/2 2122 - In KYCR's null, with Country and slogan *All New Country 1570*. (DE-MN)

DDXD-E NEWS AND VIEWS

Welcome to Perry Crabbill of Winchester, VA, a familiar name, but I believe this is the first time I've received a report from him. Also received a note via Internet from Richard Clark, testing if the message got through - hope to get some reports from you too.

Paul Mount sent along an item via Prodigy he got from FidoNet about WCEN-1150 in Mount Pleasant, MI being silent. Apparently they are planning to return sometime in the future with daytime programming only.

Jeffrey Less says his log during the KPOW-1260 test was of WNDE rather than WIRE as was reported in issue #24. See Jeff, I was paying attention!

Don Treford is looking for the address of WOCN-1450, Miami Beach; he says the P.O. returned the letter he sent to 1779 W Flagler St.

If anyone has been hearing something strange on 650 the last couple of weeks, you may want to skip ahead to *Outer Stuff* to begin your reading.

See if you can find the report of the DXer who bought a new Superadio II. Upcoming deadlines are June 3, July 1, July 29 and September 2.

SPECIAL

540 WDAK GA Columbus - Tom Bryant tells me he read in one of the trades that this station, formerly WSTH with gospel, is now again WDAK with news/talk. He's confirmed it by monitoring. (BH-DD)

600 WFDQ FL Jacksonville - 4/30 - Ex-WOKV, ex-690, these two stations have swapped frequencies. (RB-NC)

690 WOKV FL Jacksonville - 4/30 - Has moved from 600 with sports radio format; frequency swap with WPDO. (RB-NC)

820 WREK FL Largo - Is now IDing as WYTR (Your Talk Radio) and changed from REL to TLK. (BH-ID2)

880 WPIP NC Winston-Salem - Re: AM Switch Vol. 61, No 23, nothing heard yet from this station here in Shelby. Just WCBS and WLQE with NOS in that direction. (RB-NC)

1070 WKMB NJ Stirling - Sign-on 0630 weekdays, 0645 Saturday, 0700 Sunday. Sign-off 1900 all 7 days. (JH-NJ)

1160 WKJT NC Tryon - 4/7 1900 - Apparently some of their announcers don't know the Cls. Taped what I was sure was "You're listening to WJIV, Asheville, WJIT, Tryon, WGCR, Pisgah Forest". (RB-NC)

1210 WGMP PA Philadelphia - 4/18 2100-2200 - Fair with Phillies-Dodgers baseball, nothing but Spanish or 1210 earlier. DX across the band this week was the poorest in recent memory. Had heard new calls earlier, ex-WOGL. Is now sports talk using slogans "The Game" and "The new AM 1210". (TS-M2)

WGMP PA Philadelphia - 5/2 1337-1400 - Ex-WOGL, now all sports. Carries American Sports Network plus local ads and news. (RH-MD)

1270 WTMQ GA Columbus - 4/26 2100 - Silent as WHYD, noted back on with tropical Spanish music and legal ID in English by accented male. Six SS AM's in GA now. (SF-TN)

1360 WAOZ OH Cincinnati - 5/3 0200-0231 - Ex-WSAI Radio Ads kids programming, fairly good through QRM. New address from call to station, 1111 Saint Gregory Street, Cincinnati, 45202, same as WSAI-1550. (FH-MD)

1440 WRRQ OH Warren - 3/7 2120-2130 - Good signal, "101 Strings on WRRQ, the world's most beautiful music". (DE-ON)

WRRQ OH Warren - 3/10 2215-2235 - EZL music, continuous 20-minute wait for ID. WFTQ also around. (RH-NJ)

1530 WSAI OH Cincinnati - 4/13 2220 - Tape loop mimicking woman phone operator spell - "at the other end of the dial". (CM-ON)

OH Cincinnati - 4/15 2250-2300 - Ex-WCKY and Ex-1360. In stereo with "Original Hits" format with program director asking for opinions and suggestions from listeners. Nice to hear a biggy with some music instead of talk. Was this a swap or has the old WCKY passed into history? (DE-ON)

OH Cincinnati - 4/19 2203 - Flonist ad, station ID, message from station manager, address in Cincinnati, MOR oldies music. (CM-ON)

W5SAI

OH Cincinnati – 5/2 0240-0306 – Ex-WCKY, popular music from the past – “Greatest songs of all times”. New address from call to station, 1111 Saint Gregory Street, Cincinnati, 45202, same as WAOZ-1360. (HH-MD)

DX TESTS**780 WWOL NC** Forest City – 4/4 0300-0330 – Not heard in auroral conditions, just Spanishand weak WBMM. (RA-MA)
820 **WWAM TN** Jasper – 4/2 0020-0200 – Code heard for a few seconds, but nothing else, mostly WBAP and UNID with sports. (DT-JAM) (Don, when I heard WBAP it hadSports Byline USA - db) ...Not heard under WNYC and WBAP QRM. (RA-MA)
830 WWMQ NC Eden – 4/24 0000-0030 – No sign of them, XELK was atop in auroral conditions. (SF-TN)
930 WBLI WI Auburndale – 4/8 0230-0330 – Very good on peaks with varying TIs, OC and infrequent taped IDs. (SF-TN)**1230 KFQB IA** Marshalltown – 4/17 0700-0130 – Not heard. (SF-TN)
1260 WRK DE Newark – 3/27 0000-0230 – Week on test with infamous siren TI and code IDs, unneeded as previously verified on DX test a few years ago, verie card received anyway! Thanks DWSt. (RA-MA)**1269 KEGQ IA** Boone – 3/21 0200-0300 – Not heard, only a strong WSUA. (DT-JAM)
1270 WGCC NC Belmont – 3/27 0300-0400 – Not noted, but first test of 12/20/93 heard and reported with still no verie yet. (RA-MA)**1300 WQPM MN** Princeton – 4/11 0130-0200 – Extremely faint code IDs, apparent 1 kHz TI, all too weak to be sure. (JL-OF) ...Possible bits of code, mostly WIFK and others. (DB-DE) ...No luck. (SF-TN)**1450 KVOW WY** Riverton – 4/11 0210-0220 – Not heard. (JL-OH)**UND AND UNID HELP****540 W5TH GA** Columbus. Bruce Conti's UNID in Issue #24 with Solid Gospel feed is there, I've heard them after CKB signs off at 0200. (EB-MO)**580 CHLC PQ** Baie-Comeau – RE: JK-VAs UNID in Issue #24, the only French station I know of on this frequency is CHLC and they are supposed to be AC. (SA-MB) ...This is Jeff Kitzel's UNID in Issue 24, the format and language match this station, according to the 1994 AM Log (EB-MO)**830 R. Paradise St. Kitts & Nevis** – RE: John Hanz' UNID in Issue #24, the only Trinity station ever heard up here is St. Kitts. (SA-MB) ...Thus is John Hanz' UNID in Issue 24, they are TBN, simulcasting the audio from TBN's TV feed // KTBW Shortwave. The station's transmitter is actually on News, and they're 5000W/50000 UI. (EB-MO) ...MY UNID from issue #24 // 7/510 – thanks. (JH-NH)**900 UNID 319 0304-0400** – Sports talk show, American Sports Network, woman with news at 0400, no ID heard due to interference from XEW, nothing in log fits. (DT-JAM)**900 CBR PQ** Rimonski – RE: The editor's UNID in Issue #24, the ONLY CBC French station on 900 is CBR, must be them. (SA-MB) ...The editor's UNID in Issue 24 is this CBC French outlet, they should be the only one running classical music with French announcers. (EB-MO)**1050 UNID 4/21 2445** – Heard Mets baseball "on the Mets Radio Network" // WFAN-660. Was thus WEVD or one of the other NY stations (DB-DE)**1180 UNID** The editor's UNID in issue #24 could be Radio Taino or Radio Rebelde, both make it up here on a regular basis. (SA-MB)**1510 CKOT ON** Tillsburg – RE: the editor's UNID in Issue #24, most likely CKOT. They used to use "AM 1-51". Probably still do but...? (SA-MB) ...The editor's UNID from Falls Church, VA, is definitely the only remaining Canadian daytime listed as "AM 1-51" in the latest log, in addition to holding a CP to move to 1200 kHz (EB-MO)0000 to 0800 ELT

630 CHLT	PO Sherbrooke – 5/1 0047 – French talk good and loud over all, including usual WMAL. (DB-DE)	W5MAB
700 KSEV	TX Tomball – 4/4 0159 – Difficult under dominant WLW, but able to copy "Super Talk Radio 700 KSEV and 950 KPRC, Houston" during break in talk show. (RB-NC)	
730 WNAK	PA Nanticoke – 3/11 0718 – EZL music, Kampfert, Sinatra. (RH-NJ)	
740 KRMG	OK Tulsa – 3/27 0158 – Two guys talking about everything CBL gone for the night. (RH-NJ)	
840 WCTG	SC Columbia – 4/12 0700 – Fair in WHAS fade with sign-on mentioning "Lighthouse Christian Radio". This is 15 minutes after Columbia's April sunrise, so maybe they aren't interested in being on prior to 0700. If so, could explain my failure to hear them after 0630 during March (SP-TN)	
860 WTDG	GA Douglas – 3/11 0700 – ID, ads, news, telephone number given as 912-384-3250, as in KRC log. First timer. (RH-NJ)	
890 WFQA	PA Nicholson – 3/11 0642 – Religious music, WCBS splash. (RH-NJ) (Rich, I think you probably had WFkj-Cashflow, PA, a daytime regular here. The 1994 AM Log doesn't show WFQA anymore – db)	
920 WBAA	IN West Lafayette – 4/1 0013 – Classical music in background, under two others. First timer. (RH-NJ)	
960 CFFX	ON Kingston – 4/1 0002 – Oldies, Duke of Earl, mixing with WIR and others. (RH-NJ)	
990 WWEB	NC Southern Pines – 3/20 0325-0332 – OLD, ID at 0332 in part as "...WEBB..." poor interference from UNID Spanish. (DT-JAM)	
1040 WSGH	NC Greenville – 4/16 0700 – Fair with first part of sign-on, seconds before local WOBB's sign-on covered it. WSGH's April sunrise is 0645, so possibly another one who doesn't care to be on before 0700. (SF-TN)	
1070 WNCT	NC Greenville – 3/11 0710 – News on "News Star Net", blasting in. (RH-NJ)	
1150 WDYL	DE Wilmington – 4/18 0025 – Fair signal with discussion about IRS, followed by CNN News. (LW-NY)	
1160 KSL	UT Salt Lake City – 3/21 0300-0317 – Road Gang Show, ads for Dicker Transportation wanting drivers and a restaurant on Highway 90 in Houston, western weather. CW music fair UNID interference. (DT-JAM)	
1220 WKMT	NC Kings Mountain – 3/11 0731 – ID, mention of telephone number, not clear, bad jumble. First timer. (RH-NJ)	
1240 WGCM	MS Gulfport – 3/12 0430-0500 – Sports talk call-in show, ID as "Sports Network 1240 WGCM"; poor, over/under probable WINK (DT-JAM)	
1250 WPRZ	VA Warrenton – 4/1 0659 – Good with call letters spoken by man, then woman with, "It is 7 o'clock at WPRZ, Warrenton," followed by local weather forecast and into <i>Insight for Living</i> program. (RB-NC)	
1260 WNDE	IN Indianapolis – 4/12 0428 – Heard by "Sleepless in Shelby", "Thanks for listening to the G. Gordon Liddy show... home of the Pacers, 1260 WNDE" (RB-NC)	
1290 WTMG	FL Ocala – 3/17 0730 – Legal ID on the half hour. Not much else heard under heavy QRM. (RB-NC)	
WBZT	FL West Palm Beach – 3/17 0727 – Fair with CLs and mention of Delray Beach and West Palm Beach. Ex-WPBG, but new here. (RB-NC)	
WWOW WV	Logan – 3/17 0655 – Strong with local news including talk of some Logan High School students being suspended. (RB-NC)	
1340 WJOL IL	Joliet – 4/28 0525 – In-out with ID "WJOL, the voice of Joliet" into AC music, Scarborough Fair, then gone. New. (MB-IN)	
1410 WQBO	FL Leesburg – 3/21 0112 – "You're listening to Jeff ? and Mike Hatfield on Lake County's radio station, News Star 1410." Mentions of Route 441 and Leesburg. Way under WPCQ QRM. (RB-NC)	
WING OH	AL Tuscaloosa – 4/9 0730 – Good with ID, GOS music. New. (MB-IN)	
1420 WACT IN	Michigan City – 4/28 0630 – Good with ID, Political ad, news. Some WVIS interference from UNID with Gospel. (DT-JAM)	
	ORM . New. (MB-IN)	

1430 WLKF FL Lakeland - 3/28 0400-0433 - Trunknet, ID in part as "WLKF...", poor with interference from WYNEL (DT-JAM)
 1460 WADR NY Rensselaer - 4/26 0515 - Poor, IDing as "WADR-WRNY". Probably using 500 watt PSRA. (JH-NJ)
 1510 WQMG NC Greensboro - 3/19 0641 - Choir music under WLAC turned out to be this new one where WQMG is normally heard. (RB-NC)
 1540 WSMI IL Litchfield - 4/9 0735 - Mentions of "FM-106" (I believe?), weather forecast calling for lots of rain and "25 away from 6 o'clock". Legal ID at 0756 then ad for news "...brought to you by Farmers & Merchants Bank and Prairie Farm Dairy". (RB-NC)
 WBTC OH Uhrichsville - 4/9 0719 - Heard faintly with temperatures in surrounding towns under dominant WREI, then "7:19 at WBTC, 1540" followed by promo for a Cleveland Indians baseball game. (RB-NC)
 WBRY TN Woodbury - 4/9 0716 - Call letters heard very weakly among the multitude. (RB-NC)
 1550 WCLY NC Raleigh - 4/11 0357 - Fair signal dominating frequency with Gospel music.
 WQAI FL Auburnville - 4/10 0741 - Reference to nearby Lakeland then woman answering phone with "Good morning - WTWB" as she took a listener's request for a program dedication. (RB-NC)
 WSRF FL Fernandina Beach - 4/8 0657 - In as a local with ad for bonding agency in Jacksonville there. You're listening to WQAI, Fernandina Beach" into C&W mix. (RB-NC)
 1580 WSRF FL Ft. Lauderdale - 4/3 0156-0208 - OLD (very), events coming up, times of programs "only on WSRF" over/under WCCF (DT-JAM)
 FL Ft. Lauderdale - 4/8 0155 - In with FM ID: "Triple shot weekend, 103.5 WSHE, serving Fort Lauderdale, Miami and Palm Beaches", "WSHE, the only rock 'n' roll". First time heard in a while. (LW-NY)
 WCCF FL Punta Gorda - 4/3 0158-0213 - ID as "News Radio WCCF", ad for AM-SW radio, believed it was Peoples Network talk show, poor over/under WSRF. (DT-JAM)
 1590 WEXB FL St. Petersburg - 4/3 0217-0300 - UC, soul, blues, ads for *Anach*, *Ovaltine* and *Law Office of Wayne*? ID as "Star 16 WEXB", poor-fair with UNID interference. (DT-JAM)
 WONX IL Evanson - 4/9 0205 - Spanish, classical and light SS music, both vocal and instrumental. First timer. (RH-NC)
 WAKR OH Akron - 4/28 0400 - Fair with news, ID, ad for *Benjamin Moore Paint*. New. (MB-IN)
 WATX TN Algood - 4/7 0659 - Fair under WGSL with full-info sign on then, "stay tuned to 1410 WATX, The Voice of the Cumberlands". (RB-NC)

0800 to 1600 ELT

660 WMIC MI Sandusky - 4/19 0825-0930 - Fair in WMAQ splash with "Thumb-area community calendar" (TS-MI)
 690 WNZK MI Dearborn Heights - 4/19 0830-0845 - Solid in Grand rapids, no splash, with UNID foreign language [possibly Armenian] program. (TS-MI)
 1630 WUFL MI Sterling Heights - 4/19 0830-0900 - Good, UNID way under, "Sunrise Sounds" gospel music, traffic and weather. (TS-MI)
 1070 WWS WV Beckley - 4/9 0859 - Fair with "Welcome to West Virginia" then descriptions and info regarding various tourist attractions throughout WV. Number 1,000 here in less than 2 years of DXing. (RB-NC) (Congrats! - db)
 1210 WKNX MI Frankenmuth - 4/19 0825-0900 - Fair, UNID way underneath, BBD music on *The Larry Hutton Show*. (TS-MI)

1600 TO 2400 ELT

590 WMBS PA Uniontown - 0/2 2150 - Storm warnings, school closings and many IDs. 1 kW, new. (DE-ON)
 640 WFNC NC Fayetteville - 4/25 2030 - Very poor IDing as "WFNC 64- Fayetteville-Fort Bragg". (JH-NP)

770 WWCN FL North Fort Myers - 3/17 2006-2030 - Talk show, ID in part as "WWCN Fort Myers", poor, interference from HJX. (DT-JAM)
 630 KBOA MO Kennett - 4/19 1955 - Fair on Quantum Loop with call letters, then *Memories, Lying Eyes*. New. Not audible on longwave. (MB-IN)
 840 WKIR VA Earlysville - 4/19 1944 - Gospel program then sign-off by woman. Fair. New. (WPT-DC)
 890 WQIS MS Laurel - 4/7 2000 - Good in WLS null with ID, UPI news, Chuck Harder's *For the People*. Probably auroral as many northern powerhouses weak or absent tonight. New. (MB-IN)
 900 WCPA PA Clearfield - 4/9 2005 - Good prior to *Penguins* - Canadian hockey game listing sponsors such as *Gulf, Pittsburgh Brewing* (Iron City and I.C. Light), etc. them, "...live on WCPA, Clearfield, your station for sports in north central Pennsylvania" (RB-NC)
 FL Plant City - 4/9 1956 - Sounding more like a TS when heard ("Welcome to Florida", etc.), Jerry Starr suggested this could be their weekend format? (RB-NC)
 (Per a phone call from Ron on 4/30, he says this is actually WFVR, Valdosta, GA - db)

WENS

990 WHOO FL Orlando - 4/7 2228 - Strong with "Unforgettable WHOO, 990 AM at 407 295-3990" taking requests for NOS music. (RB-NC)
 WCMF NY Rochester - 3/10 2205 - ID "WCMF 96 FM and AM, home of rock 'n' roll" into Bo Diddley's *Who Do You Love*. (RH-NC)

1130 WCLW NC Eden - 4/2 2104 - Under WBBR with full-into sign-off including "We hope you've enjoyed our broadcast day here on 'CLW'" and mention of Rockingham County. Believe they said transmitter was in Ellisboro? (RB-NC)

1190 WANN MD Annapolis - 4/3 1843 - First time (barely) heard with sign-off and full info under WOOW. (RB-NC)

1230 WFOM GA Marietta - 4/3 2016 - Female news Person in a mess with "From the Washington News Desk, Tm ???" then man saying "All-Christian, WFOM". Also 4/4 0712 man with, "Cobb County, WFOM". (RB-NC)

WSOK GA Savannah - 4/3 2013 - In very briefly with preacher saying "... here in Savannah ..." with other local references. Again 4/6 1851 with full ID. (RB-NC)
 GA Fayetteville - 4/5 2037 - Spot for local auto dealership, fair-good New. (WPT-DC)

1240 WPAX NC Thomasville - 3/15 1925 - Good signal during high school baseball game with "... a good look at the WPAX sign in left field". (RB-NC)

WHVN GA Charlotte - 4/5 2008 - Spot for store in Lincolnton by man. Good, new. (WPT-DC)

WEKR IN Fayetteville - 3/15 2106 - Number 22 on this graveyard frequency. ID dredged out of mess! Logged as "tentative" several times before this. hi. (RB-NC)

1250 WDAE FL Tampa - 4/2 2002 - In and out with Orlando Magic/New York Nets basketball game, under WMA most of time. (RB-NC)

1350 WGAD AL Gadsden - 4/7 1900 - Briefly on top with ID, local news, then gone. New. (MB-IN)

1380 WMPS KY Millington - 4/1 2000 - Good with GOS music, ID, local news, ad for *Stars*. New. (MB-IN)

1400 WIRA FL Ft. Pierce - 3/26 2056-2125 - Talk show, ID as "WRA", poor, interference from WFTL. (DT-JAM)

1410 WFOP CT Hartford - 4/7 2300 - Logged once again for first time in 2 years. Those of us who were at Enfield last September can say "I've been there!", hi. (GB-NC)

WDOE NY Dunkirk - 4/7 2245 - Under several others heard "...for WDOE weather, I'm Scott?" during excellent opening to north. (RB-NC)

WSCW WV South Charleston - 4/3 1959 - Good with full-info sign-off, instructions to tune to 100.9 FM (WYFP), then gospel song. (RB-NC)

1470 WMMW CT Meriden - 4/7 2153 - Rising up from nowhere to "as local" strength with "Stardust 1470". (RB-NC)

WMMW CT Meriden - 4/28 2100 - Instrumental music, ID by man then news Good, #22 on this frequency. New. (WPT-DC)

WXKK PA Allentown - 4/7 2044 - CW music, fair-good-excellent, ex-W5AN, (WPT-DC)

WVKW PA Allentown - 4/7 2142 - Strong signal caught my ear with ad for car dealer in Lehigh Valley (which I know is in PA), ID and shorty covered by WMMW (RB-NC)

1450 WYZE AL Atlanta - 3/28 2115-2135 - GOS, ID in part as "1450 WYZE", poor with UNID interference, (DT-JAM)

1520 WEXY FL Wilton Manors - 4/1 2145-2200 - REL, preacher, ads at 2100 for appliance store, Gold Bond Medicated Powder and carpet store, ID as "24 hours a day 1520, WEXY", poor (DT-JAM)

1550 CBE ON Windsor - 4/1 2145-2200 - Music, weather including Algonquin region, announced as "CBC Weather", poor, first Canadian heard here! (DT-JAM)

1580 WQXR AL Oxford - 4/5 2015 - ID by man just before power-down. #30 on his frequency. Fair, new. (WPT-DC)

WPGC MD MorningSide - 4/9 1932 - In with mention of Sunday programming Sales Talk, Desk Warner, Computer Americans, and Dinner Hour, "on Business Radio Network, 1580" (LW-NY)

WPGC MD MorningSide - 4/29 2306 - ID as "1580 Business Radio". (W-MA) Also 4/30 1938-1935 - in very well with strong ID "WPGC news time 7:34". (W-NJ)

WONZ NJ Hammonton - 4/30 1939-2230 - Phillies baseball in OK for a good while. (W-NJ)

WTU TN Shelbyville - 3/15 1858 - In a mess with sign-off; partial info, no SSB. (RB-NC)

1590 WGJ AL Atmore - 4/2 2235-0023 - UC, Say You Will Jackie Wilson mention, ID in part "WGJ...", poor with UNID interference. (DT-JAM)

OTHER STUFF

650 TIS NC Camp Lejeune - 5/2 - Per a phone call from Charles Taylor in Gritton, NC, I was alerted to a government radio station operating on 650 kHz (possibly) in my area on 5/1. Charlie first noted the station on 4/30 with a test message by a man and tones with loop towards my area. On tune in today, I noted the same with tones varying from 20-30 seconds. Noted on truck radio with strong signal around Camp Lejeune and decreasing away from base. My loop bearing is towards Camp Lejeune. Harmonics noted on 1300 and 1950 plus spurs on several frequencies. Heard today at 1200, 1430 and 1600. 5/3 - There are two stations operating from Camp Lejeune. Both are PSYOPS units (1 Navy and 1 Army) participating in Exercise Agile Provider, and will operational daily through May 9 from roughly 0700-1900. Due to potential QRM to civilian stations nighttime ops are not permitted. They welcome reports to F.T.R.C. (ATTN: N-3), 2555 Amphibious Dr., Naval Amphibious Base Little Creek, Norfolk, VA 23521. I would suggest a PPC/PFC and return postage accompany any report. Power varies from 5kw up to 50 kw. They're almost continuously transmitting, so possibly sunrise or sunset may provide reception. (MF-NC)

740 WCTC NJ New Brunswick - Allan Ng had to be on Rt. 27/Lincoln Highway or better yet on Veronica Avenue which goes right past station and its huge tower (IH-NJ)

1060 TIS FL Tampa - MacDill Air Force Base "Airfest '94" TIS activated for the second year for events 3/25-3/27; however this year they forgot to turn the transmitter off until sometime during local day 4/11. Consisted of a male voice with nearly two-minute cart, mentioning it was operated by the Fixed Air Unit. Some local press reports say this was the final Airfest (just as they said last year), while others say it may continue. (TK-FL)

1610 TIS FL Crystal River - Radio Minutie future TIS will be activated in a few weeks, pending altering of recorder to air 10-minute cart instead of three, operated by the Crystal River National Wildlife Refuge. Their desire is to have singer Jimmy Buffet record a six-minute portion of the tape, dedicated to biological info about manatees. The same *St. Petersburg Times* article on 4/13 also mentioned that the Crystal River Chamber of Commerce has been allocated \$8,750 for a TIS (no frequency known yet, per my call same day to the Chamber). Wonder if former station is the reported planned TIS on 1610 for nearby Chassahowitzka National Wildlife Refuge? (TK-FL) (Put that one in your spell checker! - db)

1610 KTD24 WV Seneca Rocks - 4/9 1100 - On WV Routes 28/55, near junction with U.S. Route 33 - Woman's voice on tape loop giving sightseeing and camping information for the Spruce Knob/Seneca Rocks National Recreation Area. Audio spatters at times despite strong RF signal. (PC-VA)

1610 TIS GA - Regarding Laurence Kearley's UNID airport log, definitely not Tampa International, as it runs a male voice, and does not mention specific airlines. (TK-FL)

1625 SW004 EU-NY had an UNID in Issue #13; this is 100% for sure a net buoy as listed in the Grove Shortwave Directory. (SA-MB)

1630 SW108 BC-NH had an UNID in Issue #3, is definitely a fishing net buoy or beacon per the Grove Shortwave Directory. (SA-MB)

REPORTERS

**RA-MA Ray Aruda, Acushnet, MA: HQ-180A, SX-122, Radio West and Palomar loops
SA-MB Shawn Axelrod, Winnipeg, MB: (Who now needs only DE for 50 states - ironic, eh? - db)**

**RB-NC Ron Bailey (A4S), Shelby, NC: Icon IC-765, 7 beverages
EB-MO Eric Buenerman (NOUITH), Hazelwood, MO:**

**MB-IN Mark Burns, Terre Haute, IN: Drake R-9, Quantum loop, 80' longwire
PC-VK Perry F. Cabell, Jr., (W5HQX), Winchester, VA:**

DE-ON Dave Evans, Cornwell, ON: Sony SRF-A1, Superadio II (Bought new at Fay's Drugs, Malone, NY - \$35.88)

SP-TN Steve Francis, Alton, TN: Realistic TRF BH-ID1 Bill Hale, Meridian ID: From Doug Smith via Internet

**JH-NJ John Hantz, Old Bridge, NJ: Sony 2010, Alpha-delta sloper
MH-NC Mike Hardester, Jacksonville, NC:**

**RH-NJ Rich Harrison, Hewitt, NJ: Grundig Satelli 3400, SM-2, Select-a-tenna
HH-MD Hank Holbrook, Dunkirk, MD: SP-600, Colegrove loop**

**TK-FL Terry L. Krueger, Clearwater, FL:
JL-OH Jeffrey Less, 223 Pasadena, Toledo, OH 43612: Panasonic RF5000A**

**CM-ON Chris Meloche, London, ON: Yaesu FRG-8800, 4' loop, 36db amp, GE Superadio II
TS-MI Tom Sanders, Grand Rapids, MI: JVC Car radio**

**TS-MI2 Tom Sanders, Davisson, MI: Sony 2010
WPT-DC Bill Townshend, Washington, DC: Sony ICF-2010**

**DT-JAM Don Telford, St. Ann's Bay, Jamaica:
JW-MA Jim Weber, on the road in Springfield, MA: Delco car radio**

**JW-NJ Jim Weber, on Route 78 in central NJ: Delco car radio
DW-NY Leslie Wood, North Merrick, LI, NY: Superadio DB-DE
Dave Braun, Wyoming, DE: R-5000, Quantum loop**

**AM 1420
WB5SM**

/ / parallel to -40 on the hour AC/AC adult contemporary AP/Associated Press BBD/big band BRN/Business Radio Net C&W/country & western CCR/contemporary Christian radio CHR/contemporary hit radio CID/code ID CL/callletter EZL/easy listening FE/English FF/French COS/gospel IRN/interrstate Radio Net LSK/local sunrise LSS/local sunset MLB/public relations NBA/National Basketball Assn NBL/National Hockey League NPE/National Public Radio OC/open carrier PCL/political PRK/PRK/programmatic QRM/minor-made interference QRN/natural interference QRS/spanish ROK/rock 'n roll RS/regular schedule S/series SBD/sunrise SCS/sunrise skip TC/time check TT/test tones UC/carrier strip SS/spanish Star Spangled Banner SSS/sunrise skip T/

Lane

Time	Station	Call Letters	Frequency	Power	Antenna	Location	Comments
9:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
9:30	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
10:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
10:30	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
11:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
11:30	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
12:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
12:30	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
13:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
13:30	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
14:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
14:30	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM
15:00	WB5SM	WB5SM	98.9	500	500	WB5SM	WB5SM

International DX Digest

Foreign DX Catches. Times are UTC; for EET, subtract 5 hrs.

Jim Renfrew

**61 Wilcox Street
Rochester, NY 14607-3832**

First off, our congratulations to John H. Bryant, recently named as "North American SW Broadcast DX'er of the Year" by ANARC. We, of course, know John for his occasional loggings in DX, which are only the tip of the iceberg of his craft. Harry Weatherly, known to friends of DX Australia, was named as "International DX'er of the Year". Darryl Springfield was named as "North American Specialty DX'er of the Year". ANARC is the Association of North American Radio Clubs, of which the NRC is a member, and Paul Sweeningen is on its board.

A special welcome to first time reporter Herb Shatz. We look forward to getting more of your reports. Once again, Ben Dangerfield uses the same equipment to report things I never seem to be able to hear! Cesar Ojijo sent in his Holy Week loggings, when many Dominican stations are off the air.

A reminder to all who reprint information and loggings from this column: please give credit to original sources as shown after each item. I've noticed that some items printed here later appear in other publications with only "NRC" credited. This is unfair to the individuals and newsletter editors who first reported the information. I would also suggest that whenever possible the date of the original item be noted when you reprint it elsewhere. I see too many out-of-date items in circulation among our various newsletters. Thanks.

JIM

TRANS-ATLANTIC DX

549 ALGERIA Les Trembles, MAR 26 0400 - Strong signal with woman in AA followed by Algerian pop music with orchestra and vocals, into Koran at 0415. [Dangerfield-PA]

621 CANARY ISLANDS Santa Cruz, APR 10 0120 - SS talk; poor - only low- latitude TAs were noted on the low end of the dial. [Connelly-MA]

693 ENGLAND Droitwich etc., MAR 29 0445 - BBC talk program with man and woman, fair signal. This one supposed to go 24 hours on APR 1. [Dangerfield-PA]

693 AZORES Terceira, MAR 29 0455 - On top of BBC with instrumental orchestra music. These two stations were taking turns for about an hour. [Dangerfield-PA]

792 FRANCE Rennes, MAR 29 0502 - Fair signal with man and woman giving (I think) the news. France and England had turned their clocks ahead the previous weekend, thus making it an hour sooner to pick up their early morning signals since we didn't advance our clocks until the following week. [Dangerfield-PA]

837 FRANCE Nancy, MAR 29 0505 - Pop song by a woman, fair signal and // to 864. [Dangerfield-PA]

855 SPAIN Murcia etc., MAR 31 0325 - Good with SS-type music and female vocals, and a station below them at almost equal strength. [Dangerfield-PA] APR 9 0502 - SS talk; slopped by WHDR. [Connelly-MA]

855 ROMANIA Bucharest, MAR 0330 - Overrode the SS stations with a strong signal, with a man, and I later a woman, speaking slowly in Romanian. These two stations alternated until about 0400. I also noted a weak signal on 756 kHz. [Dangerfield-PA]

864 FRANCE Paris, MAR 29 0505 - Woman singing // to 867. [Dangerfield-PA]

891 UNTD, APR 9 0214 - rock music, PP or SS talk poor, so maybe Portugal instead of Algeria. [Connelly-MA] (Possibly Cuba, see logging below [JIN])

909 SPAIN synchrons, MAR 29 0440 - Heard with talk program // 693. [Dangerfield-PA]

1044 SPAIN San Sebastian, MAR 26 0250 - In well with 10 kW over 300 kW Morocco. Had instrumental pop music and a woman announcer, better yet at 0445. [Dangerfield-PA]

1098 CANARY ISLANDS // SPAIN, APR 24 0521 - man & woman in SS; good. [Connelly-MA]

1107 SPAIN RNE-5 synchrons, MAR 30 0415 - Nice signal, man and woman (what would we do without them?). Wish I could tell what station I'm hearing. [Dangerfield-PA] (Your only chance for a local ID is during local ad blocks heard occasionally heard before the hour and half-hour, and - by the way - that man and woman are heard on stations all over the world! - JIN)

1107 SPAIN, APR 24 0514 - SS talk, jazz, poor // 1143, 1152. [Connelly-MA]

1107 EGYPT Batrach, APR 9 0207 - AA male Koranic chant; fair to good through slot. APR 10 0206 - Koranic a cappella vocal; good, hitting 59+20 on peaks (about equal to adjacent WWWE - 1100 & WB1 / WHM - 1110). Egypt completely dominated over Spain, apparently due to dawn-enhancement of the former. [Connelly-MA]

1125 uID (Bulgaria or Russia probable), APR 10 0253 - classical piano music; occasionally breaking over heavy WBBR slot. [Connelly-MA]

1143 SPAIN, APR 24 0512 - SS talk, jazz, poor, // 1107, 1152. [Connelly-MA]

1152 SPAIN, APR 24 0510 - man & woman in SS, then jazz music; fair, // 1107, 1143. [Connelly-MA]

1206 FRANCE Bordeaux, APR 7 0417 - FF vocal; poor to fair [Connelly-MA]

1215 RUSSIA Boisnokovo, APR 10 0300 - I was surprised to find a huge OC here with only background evidence of the usual UK & Spain stations. Then, the "Midnight in Moscow" chimes came on, then time pips and talk at 0300 sign-on. This was a complete surprise! [Connelly-MA]

1251 LIBYA Tripoli, APR 6 0343 - big OC. APR 9 0204 - female AA vocal at low audio level on monster carrier; other stations (likely Hungary & Portugal) running around underneath. APR 19 0323 - AA, female vocal & talk at low audio level; big carrier. [Connelly-MA]

1269 ITALY Rome et al., APR 9 0201 - slew of signals here with apparent blend of Slav / GG / SS talk. [Connelly-MA]

1305 SPAIN //, APR 24 0506 - mx. & SS talk (not sure if both audios were from same station). Bad low-pitched growl was present. [Connelly-MA]

1314 SPAIN, APR 24 0505 - dominant with SS news by woman; slopped by CKEC - 1320. [Connelly-MA]

1332 ITALY Rome et al., APR 7 0413 - news by woman in II // 1575; fair through WRCA slot. [Connelly-MA]

1359 SPAIN Arganda, APR 24 0500 - pipes, SS news by woman; spittable from local WLYN - 1360. [Connelly-MA]

1377 FRANCE Lille, MAR 31 0502 - woman in FF; fair to good. [Connelly-MA]

1377 ST. PIERRE ET MIQUELON, APR 15 0332 - woman in FF; good signal with a choir and possibly a religious service. Man in FF at 0504. The choir sounded like the one at Notre Dame. [Dangerfield-PA]

(During Holy Week - JIN)

1386 RUSSIA Bolshakovo, APR 9 0157 - bits of classical music. APR 10 0304 - fair with woman in RR. [Connelly-MA]

1422 GERMANY Heusweiler, MAR 31 0455 - In briefly with instrumental music, man in GG at 0500 news? [Dangerfield-PA]

1467 FRANCE Roumoules, APR 7 0357 - religious choral music; fair to good (but choppy fades). APR 7 0410 - good with woman in GG. APR 22 0402 - religious music; in stop. [Connelly-MA]

1476 uID, APR 9 0155 - two carriers (SAH about 2 Hz) - bits of A-A sounding talk, so maybe UAE on down-enhancement. [Connelly-MA]

1494 RUSSIA (tentative), APR 9 0153 - bits of Slav-sounding talk, also a test-tone was noted. [Connelly-MA]

1503 POLAND (R), APR 10 0308 - carrier, possible Slav talk in WTOP - 1500 & WSSH - 1510 slot. [Connelly-MA]

1503 SPAIN, APR 24 0451 - music, SS talk; poor through WSSH, 1510 / WTOP 1500 slot. [Connelly-MA]

1512 BELGIUM Wolvertem, APR 7 0409 - pop rock music; in bad WSSH slot. [Connelly-MA]

1512 SAUDI ARABIA Jeddah, APR 9 0148 - AA a cappella vocals; to good peaks with WSSH slot nulled with the RTL-2 loop. WSSH is one local pest that seems to null better with the loop than with the phased wires. [Connelly-MA]

1521 SAUDI ARABIA Duba, APR 10 0307 - female AA a cappella vocal; 59+50 (!!!), like a local, completely mauling WWKB. APR 19 0258 - AA music fair to good; few other TAs noted at the time. [Connelly-MA]

1521 SPAIN, APR 24 0448 - man in SS; to fair peaks through residual slot from phased WWKB. [Connelly-MA]

1530 VATICAN, APR 2 0158 - just under a strong WCKY with a choir, followed by interval signal and a woman speaking. [Dangerfield-PA]

1530 SAO TOME & PRINCIPE, APR 22 0412 - VOA about equal to WCKY with African Service in EE // 7405 - end of news followed by "Newsline" with Neil Curry: in-depth reportage of Serb attacks on clinic in Gorazde, then items about Rwanda. Bits of a third station (presumably Vatican) way off in the background. On this generally mediocre DX night, 590 Toms was actually one of the best TAs! APR 24 0420 - VOA noted with EE talk about the Muslim religion and culture around the world. Signal poor; behind WSAI (ex-WCKY) nostalgic music show. Faded away by 0430. [Connelly-MA]

1548 ENGLAND, APR 9 0150 - man in EE; poor. APR 24 0434 - fair with EE news by woman. [Connelly-MA]

1557 FRANCE Nice, MAR 31 0505 Fair signal with a soprano and a woman in FF at 0508. Again on APR 3 0500 with a man talking before a male vocal. [Dangerfield PA] APR 24 0435 - poor rock; poor in WQW stop. [Connelly-MA]

1575 ITALY Genova et al., APR 7 0407 - news by woman in II / 1332; good, atop Spain. [Connelly-MA]

1575 SPAIN, APR 24 0440 - fast SS news / 1584, to fair peaks. [Connelly-MA]
audio delays up to a full second (!) between the various co-channel stations on the network. [Connelly-MA] (No, Mark, it's because as you get older one of your ears gets out of phase with the other! - Jim)

1611 VATICAN, APR 2 0340 - Very strong with woman in RR. How do these Vatican stations get out so well? Especially this 15 kW one here? [Dangerfield PA] APR 6 0335 - Ryan by men's choir; fair to good (stronger than Anguilla - 1610). APR 7 0402 - man in Slavic sounding language mentioning tests; good. [Connelly-MA] APR 14 0350 - Poor, woman in Slavic language, interval signal at 0400, then more slavic (possibly Ukrainian), first time in Winnipeg! [Axelrod ME] (See STATION NEWS below - Jim)

Ben speaks: "The DX continues. On the last 4 nights I have noted 43, 39, 34 and 40 TA signals respectively. This includes some weak hets, of course, but also quite a bit of audio and some pretty good signals. I keep trying to relate the better TA cycles with the full moon as some of the old timers did, and it does seem that over the past four months this did tie in, plus or minus 10 days to a week. However, some of my best loggings were not even close to the full moon, so there you go!" (maximum/minimum A-indexes follow a 28 day cycle, so it's reasonable to expect that TA's might be in synch with the full moon during the course of a season - and out of synch the next - Jim)

Shawn speaks: "A TA at home unheard of, but there two nights in a row. Only TA to make audio, though hets on 1008, 1035, 1107, 1134, 1314 and 1602. This season isn't over yet!"
Mark speaks: "Conditions have certainly deteriorated, especially to Europe. Still, the spring season can still yield good DX on trans-equatorial paths (e.g. deep Africa, Brazil) on auroral nights when good receiver / antenna / location combinations are used ... High band down-extended openings seem to be the bright spot during the otherwise mediocre conditions that characterize this time of the year. Those on the east coast of the USA & Canada should look for high-band openings into Spain around 0400 to 0500 UTC. Some of these signals can rise up from the domestic slop to good levels quickly and unexpectedly (and later they can disappear just as fast)."

PAN-AMERICAN DX

530 COSTA RICA R. Rumbi, Cartago, APR 3 0545 - With a program of ranchera. [Objio-DR]
533 TURKS & CAICOS, MAR 6 & MAR 8 (heard here, then back to 535 on MAR 14. [Melodico-ONI]

535 TURKS & CAICOS / GRENADA, APR 10 0126 - T&C with SS talk over apparent EE religion from Grenada. There was a growl (beat note) of about 50 Hz between the two stations [Connelly-MA]

540 MEXICO XEW Monterrey APR 7 0409 - Announcing Mexican singers, then a song, probably entitled "Te casaste" (You Got Married) because of the repetition of the words. IDed as "WWA" at 0409, then more Mexican music. [Objio-DR]

550 VENEZUELA R. Mundial, Caracas, APR 1 0402 - IDing as "YVKE Mundial" at the end of a Dominican merrage, then ID, and after that a typical Venezuelan song criticizing government corruption with joropo music and a harp "Oiga, Señor President" (Listen, Mr. President!), beautiful. [Objio-DR]

555 ST. KITTS & NEVIS Basseterre ZIZ, APR 10 0128 - political speech by man in Caribbean EE; to fair peaks. [Connelly-MA]

560 [AM/AMCA] - Poorly [BC] with typical accent. A very long talk by a woman, very good, but did not wish to wait for an ID. I've heard them before. [Objio-DR]

600 BRASIL R. Gaucha, Porto Alegre APR 7 0413 - Surprised to hear Portuguese here, suspected Brazil, until I heard "Gaucha" at 0413, then no doubt. [Objio-DR] (Nice - Jim)

610 TRINIDAD & TOBAGO, APR 25 0400 - fair to poor with WZZK/WDAF with contemporary music (mostly from the '60s, '70s and '80s); someone with English announcements. Quality of studio-transmitter link (likely a standard phone line) lower than those in use here in the United States (digital phone lines and microwave are most commonly used for studio-transmitter links in the U.S.) Best guess may be Port of Spain, Trinidad and Tobago. It seems to have an AC/NOS format, and IDs as "?? National Radio 610" (couldn't get the first word) by slightly accented male and female announcers. The WRTVH 94 says the station in Port of Spain, Trinidad and Tobago IDs as "TBS Radio 610", so there may be a

possibility that NBS-Trinidad and Tobago may have added "National Radio" to their name. Thus is the second night in a row that this foreign station (likely a Caribbean station) has been heard here on 610. I'm 95% sure it's Trinidad and Tobago, but in reviewing the tape, the three letters said before "National Radio 610" sounded like RTL, but I may be confusing it with NBS, the occupant of the 610 slot in Port of Spain. A tentative report will be sent shortly. International DXpers may contact me at drtx13@prodigy.com. [Bueneman-MO]

610 HONDURAS Radio America HRLP7 La Ceiba, APR 26 0353 - Good to fair over WDAF / tentative Trinidad and Tobago with information programming promo. "Radio America" IDs, local ads in SS, at times in at semi-local strength! HRLP7-630 also in. Somehow, I've stumbled upon good conditions to Central America and the Caribbean!

[Bueneman-MO]

630 MEXICO La Estacion de las Noticias XEFB Monterrey NL, APR 13 0413 - good to fair over WAYU / others with local ads and local, national and world news in SS. (English translation "The News Station.") Local KXOK 630 off. [Bueneman MO]

630 HONDURAS Radio America HRLP7 La Ceiba, APR 25 0241 - good to fair over XEFB with "Radio America Deportiva" promo, another station promo. "Radio America" ID, then notitas. WRTVH '94 lists three stations on 620 relaying HRLP-610 Tegucigalpa (all with 1 kw). La Ceiba is the closest one as this city is on the northern coast facing North America, so this is the most likely of the three. The other two relays on 630 are HRLP3 Choluteca, and HRLP13 San Lorenzo. Local KJSU not yet on. [Bueneman-MO]

650 COLOMBIA Antena 2, Bogota, APR 8 0550 - Good, talk by man and woman, mention "Antena Dos de Colombia", more SS chatter. [Melodico-ONI]

650 MEXICO XEINT Los Mochis SIN, APR 14 1157 - Mexican music, cannot ID at 1159.50 "Ud escucha XEINT, La Sestante y cinco, La ... desde Callejon Sinatra [should be Calle Suralea?]

642 Poniente en Los Mochis, Sinaloa. 650 kHz en la banda de Amplitud Modulada; 11 watts en antena, orgullosoamente regional" and into news, fair signal. [Wilkins CO]

694 CUBA R. Progreso, Jovellanos, MAR 20 2330 - Noticed strong at this time and throughout the evening. Was back on 690 the next day. [Dangerfield-PA]

700 COLOMBIA CARACOL Cali, APR 9 0945 - Fair-good with man in SS with talk, and many IDs, heard through WLW. [Melodico-ONI]

720 VENEZUELA R. Oriente, Maracaibo, APR 7 0542 - IDing, with romantic music. [Objio-DR] APR 11 0944 - Good with SS pops. "R. Oriente" ID, tunecheck at 0947. [Melodico-ONI]

730 UNID, APR 10 0130 - maybe Trinidad here with Caribbean EE sounding talk mixed with CKAC groundwave during semi-auroral low-band conditions. [Connelly - MA]

740 UNID, APR 3 0852 - From 0852, poor with WIAC (San Jose, Puerto Rico) and CHCM (Marystown, Newfoundland) QRM. Spanish, Latin ballads played by a male announcer giving TCs. Cuckoo-clock sounds between selections with several mentions of "Super". Elusive -- I've heard this before WIAC dominated at 0900, so I had no chance for an ID.

Probably Colombia, but strange that I was getting CHCM drifting in on the signal. The KWA was aimed almost at right angles to CHCM! [Funkenhauer-ONI] (In 1994 WRTVH R. Maracaibo is shown as part of Sistema Super Radio - Jim)

750 COLOMBIA CARACOL, APR 1 0426 - Very good ID as Caracol and "R. Noticias", the time was given as 11:25 at 0426. [Objio-DR]

750 JAMAICA RJR Galina, APR 18 0210-0233 - EZL music with listener phone-ins to male ID's Religious program til 0303, then local news and fade-out at 0307. Numerous ID's throughout, and mostly excellent signal. [Sanz-NY]

760 COLOMBIA RCN Barranquilla, APR 2 1251 - With news, whet. IDed [Objio-DR]

770 MEXICO XEPMM, Cd Mante, APR 8 0302 - Heard man in ORM with "XEPM ... emisora .. Cd. Mante". About 90% sure of call, not so sure of QTH, there is a Cd Mante in Tamaulipas. Mix with KKDX and another XE or two. [Wilkins-CO]

770 UNID, APR 8 1200 - Heard "F-S Tropical" (or similar) in ORM. Maybe a slogan, maybe nothing at all, into news at 1200. 770 is getting kind of messy these days. [Wilkins-CO]

770 WXET?, APR 12 0727 - Mexican music, male announcer, sounds Mexican, but at 0322 heard "Doble u equis eh jota [WXET] clearly. Nothing fits; may have been just a mention of a

station in network during news break. [Wilkins-CO]

780 VENEZUELA R. Coro, APR 1 - With time as 11:20 at the end of a song entitled "Cuando Floresca Las Anapolas" (When Poppies Bloom). [Objio-DR]

780 VENEZUELA San Cristobal YVOC, APR 19 0230 - rustic-style SS vocal & guitar then talk "Ecos de Torres presenta ..." dominant. I was surprised at getting this in the clear instead of usual Coro. [Connelly-MA] (Yes, this old station by is rarely heard these days, Jim)

790 MEXICO XERPC Chihuahua CHF1, APR 13 0400 - "En la Cd. de Chihuahua, esta es XERPC R. Rancho, 790 kHz, 5000 watts de potencia", then into PSA. Generally fair, not much QRM. [Wilkins-CO]

800 NETHERLANDS ANTILLES PJB Bonaire, APR 2 0025 - Fair with religious program and prayers in EE, TWR ID. [Axelrod-MB]

830 MEXICO XEVQ Navolato SIN, APR 8 1204 - Ad for "Supermercado DN" en Costa Rica, Sinaloa; "La Grande de Sinaloa" slogans, contest promo with Box 120 mentioned (as in WRTI), generally fair, not much QRM. [Wilkins-CC]

830 ST. KITTS & NEVIS Basseterre, APR 10 0117 - talk about 410 stations on the network preaching the gospel. Loud (59+20) // 7510. APR 19 0212 - excellent with religious C&W vocal, then preaching by southern-accented woman; // 7510 (59+20) // 7510 [Connelly-MA]

840 MEXICO XXXX Tamaulpa, MAR 24 0350 - fair with Mexican ballad music, Triple X ID, new! [Axelrod-MB]

850 COLOMBIA R. Recuerdos, Bogota, APR 3 0057 - Ding with "HJKC 850 Santa Fe de Bogota, Caracol", very good with ads. [Objio-DR]

850 PUERTO RICO WABA, Aguadilla, APR 2 1242 - Like a local, relaying WKAO-580 R. Reloj news!, which could not be heard on 580, naturally it is in San Juan (farther than Aguadilla), so only R. Fe 580, Maratoco. [Objio-DR]

860 NETHERLANDS ANTILLES R. Curon, Willemstad, Curacao, APR 2 1253 - In Papiamento, only heard when R. Claro is off. [Objio-DR]

860 VENEZUELA R. Enlace 8-60, Valle de Pascua, APR 3 0100 - Ads and typical Venezuelan music, pororo with harp at 0100. [Objio-DR]

880 VENEZUELA "Paraguana 8-80", APR 1 1615 - New station on the Paraguana peninsula, in the Coro area, very good with news about the beaches. [Objio-DR]

885 MONTSERRAT Plymouth Z[B], APR 10 0122 - excited Caribbean talk spoken by man & woman; weak. [Connelly-MA]

890 XENZ Culacan SIN, APR 7 1207 - Probable with tuba music, typical of Mexico's west coast, male announcer with MST or PDT timechecks, spot for lonchera Buena Vista. Today, and on other occasions, have heard "La Fiesta Mexicana" mentioned, so think it is their slogan, not 'Fiesta Latina' that is listed. Over/under KVQZ, also SS. [Wilkins-CC]

891 CUBA MAR 31 6030 - Not sure which one, but very strong on this frequency from this time on. Blocked Algeria. Also noted but not as strong, on APR 3 0200-0400. What kind of standards do they have in Cuba? [Dangerfield PA], APR 6 0231 - Heting WLS with "R. Progreso", man and woman announcers, light vocals, good signal, even this far west. [Wilkins-CC]

895 ST. KITTS & NEVIS Charlestown, APR 10 0154 - reggae & calypso music; good to excellent [Connelly-MA]

900 VENEZUELA Mara Ritmo 900, APR 2 0450 - ID and pop music. [Objio-DR]

910 PUERTO RICO WPRP Ponce, APR 7 0107 - Weak, with baseball game. [Objio-DR]

920 MEXICO XETAA Torreon COAH, APR 6 1139 - Canned ID; "XET Doble A, Radio Éxitos, energía pura, 920 kHz en amplitud modulada, cinco mil watts de potencia, Torren, Coahuila, desde la Comarca Fuerza [from the Outer Limits]", then into U.S. rock song, fair over/under QRM. [Wilkins-CC]

940 VENEZUELA Super Radio Punto Fijo, APR 1 1803 - With news about "vadoretas" travelling during Holy Week. [Objio-DR]

950 VENEZUELA R. Informativa, Caracas, APR 3 0110 - Many, many IDs, 8:09 time check, news, local R. Popular off. [Objio-DR]

960 COLOMBIA Magangue HJCF, APR 3 0448 - With ads for Avianca, Seguros Nacional. [Objio-DR] APR 19 0310 - several CARACOL mentions, SS teletalk, good over CHNS / others. [Connelly-MA]

960 ARUBA R. Victoria, Oranjestad, APR 2 1320 - With programs in EE. [Objio-DR]

990 COLOMBIA HJD B Medellin, APR 8 0623 - Poor, RCN network political program // 770 and 1020, new! [Axelrod-MB] [(According to station, this is now 100 kW - Jun)]

1000 COLOMBIA Cartagena HJAQ, APR 19 0243 - RCN mention, SS talk about Colombian politics. [Connelly-MA]

1020 COLOMBIA HJFQ Pereira, APR 8 0524 - Good with RCN political program, // 770, new! [Axelrod-MB]

1020 TURKS & CAICOS, APR 19 0245 - black gospel vocal, then ID "Superpower 1030, Caribbean Christian Radio from Grand Turk in the British West Indies", well over KDKA & others. Many ads for Sears and other companies. I did not know who they were til they IDed at 0444. Heard them again APR 3 0112, very good, increase of power? [Objio-DR]

1070 VENEZUELA Mundial Zulia, Maracaibo, APR 3 0529 - With news and ID [Objio-DR]

1100 COLOMBIA CARACOL Barranquilla, APR 2 0438 - With news. [Objio-DR]

1101 unID, APR 10 0243 - het against WWWE. I think that this is the Colombian noted by others. [Connelly-MA]

1160 BERMUDA Hamilton VSB3, APR 19 0248 - "On the Sunny Side of the Street" by Pete Fountain played on BBC big-band jazz show // 5975. Sometimes atop the WSKW/WOBM/WVNJ malaise, sometimes under it. [Connelly-MA]

1340 of VENEZUELA R. Falcon, Santonia Tunica 94, APR 1 1758 - Not on 1350 as in WRTI, and as they themselves announce. News about the movement of tourists during Holy Week on Venezuelan highways. [Objio-DR]

1420 VENEZUELA R. Marbina, Maracaibo, APR 2 0430 - Pop music, did not mention the word "Super" as it is used by most Venezuelan stations. [Objio-DR]

1430 VENEZUELA Bahia "(did not use "Radio", Puerto La Cruz, APR 1 0443 - Repeating "Bahia" several times, then a song. [Objio-DR]

1520 PUERTO RICO "R. Aeropuerto Quince Veinte AM", San Juan, APR 3 0130 - Announcing a program entitled "Por Una Cabeza" (For One Head), a horse racing program, with the musical introduction of Carlos Gardel singing that song, then another ad for a program of tangos. [Objio-DR]

1530 PUERTO RICO WPUF Utuado, APR ? with a baseball game between Utuado and Porvenir, ads for terrenos in Utuado, Centro car service. [Objio-DR]

1550 MEXICO XEUR Mexico DF, APR 14 0746 - Good with lively music, ID as "Radio Onda, Onda, Onda". [Axelrod-MB]

1580 PUERTO RICO R. Jefe, Morovis, APR 3 0123 - With a baseball game between Aguadilla and Vega Alta, with this one in the 4th inning. [Objio-DR]

1610 ANGUILA The Valley, APR 19 0259 - religious group vocal, fair to good. [Connelly-MA]

2120 HONDURAS LV de Centro America APR 9 0315-0321 - ID and ads. Excellent signal. 2x1060 harmonic. [Moore-IA]

Eric speaks: "I've also been logging Cuba in the evening hours on 640, after midnight CDT, KFI, WWLs and WCI battle it out on 640, while WRZ still dominates on 620, along with an unID SS (maybe another Pan American station or WSKO). WAUW (all 28 watts!) has been hogging 630 the last few nights, with the only other 630 heard at night being XERB with its all-news format in SS."

Don speaks: "Logs dated APR 8-10 were made at the MARE DXpedition at Island Lake State Recreation Area, near Detroit, Michigan. Equipment was an unmodified Sony ICF-2110 connected to a 360 foot north to south mini-beverage, via a diode protection block. Loggings with other dates were made at home in Davenport with an R-5000 and two 400 foot mini-beverages."

STATION NEWS

194 BELGIUM: RVI uses 1512 0400-2300, they increase power at local sunset. [BE in ARC APR 17]

CLANDESTINE: National Radio of the Saharan Democratic Republic now observed on 11800 in parallel with 1544 and 576 (announced). Transmissions are in AA to the Middle East, scheduled 0600-0800 (exc. Fr., 0700-0900 (Fr.), and 1800-2400. A transmission in SS can be heard irregularly at 0000-0100. [Berelux DX Club in Medium Wave News MAY/JUN 1994]

GERMANY: The following NDR transmitters have been taken out of service: Rostok 558, Schwerin 576 and Kiel 612. The output power of Hamburg 972 is now 100 kW (ex 400); Hannover 828 kW (ex 100), Herne/Bielefeld 657 20 kW (ex 40) and Lingen 752 5 kW (ex 10) [Kunze via DXclusive #60 in ARC APR 17]

MEXICO: Further listening on 2020 kHz has proven it was Radio Lobo 1010 from Mexico, and not the Dominican Republic as first thought. There are still some reports from the southern U.S. of the Radio Comercial 1010 being heard on 2020 on Glenn Hauser's World of Radio. Our 1010 // 2020 was Radio Lobo as also heard on World of Radio. Just love these mux-ups. [Axelrod-MB]

MONACO: RMC 702 phans 1200 kW. [HR Wurzburg in ARC APR 17]

NETHERLANDS: Holland FM 1224 kHz, Address is incorrect in previous posting. It has also been reported incorrectly by other people. According to a station QSL card its address is: Holland FM, Hendrichsweg 35, 3021LC Rotterdam Netherlands. [Derek Taylor and Medium Wave News via Steve Whitt e-mail]. Currently operating with a 10kW transmitter from an underground emergency bunker at Noordwijk site at Lopik. Actual radiated power is less (approx 2.5kW) limited by local radiation limits. Holland FM has bought the Communicator radio ship (ex Laser 558) which it wishes to operate from the middle of the IJsselmeer. The intended site was a small harbour on the 20km dyke crossing the sea from Eindhoven and Lelystad. Operation here is proposed to be about 40kW for coverage of much of the Netherlands. Failing this plan Holland FM may be stuck with using several low-power land based sites which is considerably more expensive than one higher-power site. Address: 1 Draksweg 37, 3012LC Rotterdam, Netherlands

(station will QSL). Programming has a large proportion of Dutch music. [Jonathan Marks, David Duckworth and Derek Taylor via Steve Whitt e-mail]

UNITED KINGDOM: Virgin Radio 1215 is currently campaigning for an FM frequency, undoubtedly with the debate over the use of 105.108 MHz in mind. On-air announcements are advertising an "FM petition pack" ... they hope to present the RA with "millions of signatures". [Tony Rogers in Communication, March 1994 via *Distance 4.94*]

UNITED KINGDOM: The Radio Authority has received six applications for the third Independent National Radio licence (INR3). This station will use the 1053/1089/1107 kHz channels currently occupied by BBC Radio 1. The RA hopes to announce their decision in June/July 1994. The highest bid, at GBP 3.82 million, came from Talk Radio UK Ltd. [BDXC in ARC APR 17]

VATICAN: 1692 kHz Vatican Radio Spurious signal noted here consisting of mix of audio from Vatican transmitters on 1530 kHz and 1611 kHz. This is an intermodulation product - (2x1611 kHz). 1530 kHz thought to be generated at the transmitter. Noted around 2030 UTC. Spurious signal on 1592 kHz noted in Suffolk, England. Similar problem noted in Preston directly affecting 1611 kHz output. [Derek Taylor and Steve Whitt e-mail] Vatican Radio is now using approximately 100 kW on 1611. [BE in ARC APR 17]

YUGOSLAVIA (?) 1662 kHz UNID probably in former Yugoslavia. New station first noted early April with overnight operation. Eclectic music mix (including local music, Irish music, US 1960 pops etc) with presenter & phone calls in East European language (definitely not Polish or Russian - probably Serbo/Croat). Time checks definitely Central European. Extremely distinct time pip at top of hour consists of a very violent Cuckoo Clock! Very clear signal after Denmark and Italy sign off 1062 kHz. Very loud modulation. [Steve Whitt e-mail]

TA BEACONS:1635 Breast Radio FRANCE, ship-to-shore telephone (ship on 2049 kHz), 1641 Lands End and Niton Radio IRELAND Navigation warning 219, 1688 Fluda? Radio, navigation warning 289, 1692 Boulogne Radio FRANCE, navigation warning; 1698 La Coruna Radio SPAIN, station-station communications; 1704 Lyngby Radio DENMARK Gale warning / Nav warning 523, 1704 Tarifa Radio Si:AN, Navigation warning 339; 1707 North Foreland Radio UK, gale warning 1713 Scheveningen R NETHERLANDS, weather forecast // 1716 kHz. [heard APR 1994 by Steve Whitt (UK) in Medium Wave News MAY/JUN 1994]

UNIDS (in DXN 61-24)

1030 "unID RCN" - the 1993 WRTI lists HJR as RCN, not Antena Dos, therefore not // 650, so possibly 1994 WRTI is wrong. [Wilkins-CO] (Thanks, John - Jim)
 1510 "XEZ?" - The 1990 IRCA Mexican List shows an XEQI on 1510 from Moretory, listed as 10 KW days, however. [Wilkins-CO]
 1550 "XEREN" - IRCA Mexican List shows call as XEREL in Michoacan, Morelia with only 500 Watts. [Wilkins-CO]
 1560 "XEMAR" - Both 1994 WRTI and 1990 IRCA List show call as XEMAS with 1 kW day and night. [Wilkins-CO]
 John speaks: You wondered "so why tentative" regarding XEMBC 1190 in DXN 61-24. I guess I'm pickier than most when it comes to ID'ing a station. If I had heard a phrase such as "suar en Radio Variedades de Mexicali", i.e., tying together slogan and city, then I would have counted it. But phraseology is everything, a mere mention of "Radio Variedades" is not an ID, a mere mention of "Mexicali" proves nothing; PFI timechecks are only a clue. These items were heard separately and may not have been coming from the same station - there was QRM on the frequency. This definitely ranks as probable, but until I'm 100% sure in my mind, not 95%, I'll not positively count it. Also "Radio Variedades" is a very common slogan, used by many RF stations, and just because a station is listed somewhere as using a certain slogan doesn't mean it is so. "List Logging" still remains one of the cardinal sins to be avoided by DXers. There is no substitute for a real station ID. Anything less is either "unID", "tentative" or "probable", depending on the listener's degree of confidence. (John, I agree with everything you say. The way you described the logging gave me the impression that the items you heard were one after another from a single signal; apparently they were more fragmentary and more open to question. - Jim)

OSL INFORMATION

MEXICO: 620 XEBU Chihuahua. PFC, note, stickers in 19 days for C-10 tape, \$1. V/s Reyna Salmon de Boone, Depto. de Continuidad. [Wilkins-CO] 820 XEUDO Los Mochis. PFC, n/d letter, postcard in 50 days for \$1. V/s Lic. R. Irma Penelosa Castro Directora, Address: Blvd. M. Gómez y Carranza Int. 1, A.P. 936, 81200 Los Mochis, Sinaloa. [Wilkins-CO] 830 XEIK Zacatecas. PFC, n/d letter, desk calendar in 72 days for SS report \$1 V/s Francisco J. Llamas A., still using "Cinda Juventud 128" stationery 50th XE QSL on medium wave. [Wilkins-CO] XEQ-940 sent qsl

card and letter in 3 months by certified air mail, along with XEW-900 banner, and stickers from XEQ 92.9, XEX-730, XEW-900 and XHQ-940; v/s is Ing. Miguel Angel Barrientos Valdez, Director Técnico de Plantes Transmisoras; Grupo Radiopolis, Tlalpan 3000, Col. Espanola, C.P. 04870, Mexico City. [Kenfrew-NY]

TURKS & CAICOS: RVC-335 Usual t/d card from Box 2908, Patterson NJ. V/s Bob Janney KA4QVO, CE. [Wilkins-CO]

CONTRIBUTORS

Ben Daugerfield, Wallingford PA, HQ-180, Radio West Loop.

Eric Buerneman, NOUITH, Hazelwood MO, Realistic DX-200, Worcester SM-2.

Jim Rer Frew, Rochester NY, HQ-180 Radio West Loop.

Herb Shatz, Warwick NY, FRC-7000 and Quantum Loop.

Mark Connally, WALION, Billerica, Drake R8, two slopers (approx. 37 m. each) via noise-reducing transformers to DL-1 Phasing Unit <OR> RTL-2 Remotely-Tuned Loop — Both setups are passed through MW1 3 Regenerative Tuner.

Don Moore, Daveport IA, Werner Frankenbauer Kitchener ON, ICOM R71A, Kw. A Mediumwave Loop.

Steve Whitt, Maxium Wave News, United Kingdom.

Chris Meloche, London ON; Yasu IIG-8800, 4' loop, 300dB Amp/Preselect, GE Superadio II.

John Wilkins, Wheat Ridge CO, Drake R-8, 4' Box Loop.

Cesar Ohio, Santo Domingo, Dominican Republic; TRI-Realistic, 4' loop.

International DX Achievements

2840 SE Illinois Avenue
Topeka, KS 66003-1427

International DX totals listed periodically in different categories

Year	Started DXer	Last Update	Total	Verifd	A9	Ctrles	Frgn	SA	NA	Eur	Oc	Af
1952	McIntosh, Eric	NZ	1965	665	81	65	2	301	45	253	4	
1952	Miller, Roy	WA	1993	2341	63	81	349	34	164	18	99	1
1957	Vernon, Brian	YU	1981	314	55	39	232	1	7	66	106	
1963	Schrageur, Gray	CAON	1971	526	26	47	40	10	354	18	31	1
?	Bellut, Sam	Australia	1978	352	23	37	218	109	5	80	1	
1988	Taylor, Pete	CA	1993	375	39	26	98	4	22	13		
1994	Gustafson, Hilding	IL	1993	865	24	115	319	36	68	115	61	24
1998	Daggerfield, Ben	PA	1981	422	8	118	323	44	84	148	8	31
1996	Moore, Ray	MA	1993	245	7	104	285	52	95	59	8	24
?	Calmaran, John	?	1970	743	6	90	138	20	72	17	20	3
1998	Anderson, Roger A.	WA/NVPA	1993	1448	5	105	514	78	227	128	48	28
1958	Mernick, Alan	IA	1994	1615	4	95	368	47	212	88	3	14
1966	Holbrook, Hank	MD	1993	2616	3	103	303	156	61	49	26	
1940	Moss, Sam	MA	1993	5922	3	84	424	65	218	221	1	14
1955	Geary, Kermit	PA	1993	6190	2	107	988	283	512	147	61	23
?	Sampson, John	NJ	1965	445	1	54	72	6	23	38	1	3
1962	Edmunds, R. J. (tapec)	NJ	1993	897	1	45	56	37	95	14		
1951	Stelle, Sj	IL	1993	3071	1	35	298	12	183	2	8	
1958	Wesobol, Enile	NE	1977	1	24	168	6	153	7	1		
1951	Holland, George B. Jr.	NY	1993	884	1	18	129	5	46	3	2	
1951	Buerenau, Eric S.	NO	1994	472	0	12	10	1	470	2	0	
1953	Cooper, Ernest	NY-MA	1980	4142	79	760	131	528	88	7	6	
1960	Ruge, Andy	QC	1993	1672	69	203	48	83	65	6	6	
1954	Star, Jerry	OH	1974	1209	51	194	34	134	20	3	3	
?	Pakowetz, Jeff	ON	1976	49	1175	44						
1962	Musco, Ron	CT	1994	1206	36	30	30	6	1			
1976	Reinwein, Jon	NY	1993	351	51	7	44					
1955	Palmer, Richard D.	IL	1993	822	33	94	77	10	2	1		
1968	Straus, Eliot	NJ	1993	851	41	5	77	13				

1965	Long, John	CT	1968	101	29
1966	Reynolds, Bruce	MO	1977	110	28
1968	Phillips, Dan	PA	1974	67	21
1971	Wheeler, Frank	PA	1993	185	6
1974	Felt, Joseph	NJ	1965	75	11
1969	Karcher, Bob	MA/CA	1975	204	2
1974	Lauzon, Peter	NC	1973	109	1
1975	Sweangen, Paul (taaped)	ES	1994	715	1
1967	Eddle, Rich	MO	1982	1570	22
1967	Heitzen, Wayne	NY	1981	892	2
1976	Froemming, Gary	AZ	1994	338	18
1974	Ritter, Mike	WI	1983	925	17
1971	Krusz, Len	IA	1971	400	17
1982	Kirfoot, Tim	ON	1975	57	13
1964	Sorenson, Morris	ON	1964	990	13
1964	Wharnsby, Dave	ON	1977	397	13
1977	Wolfish, Neil	ON	1982	457	9
1968	Bytheway, Phil	WA	1980	9	157
1960	Lynch, Don	MA	1994	266	7
1962	Edwards, R.J. (paper)	NJ	1981	60	7
1976	Hughes Park	IL	1982	42	6
1973	Ericsson, Don	CA	1982	25	6
1975	Burnett, Paul	OH	1976	25	2

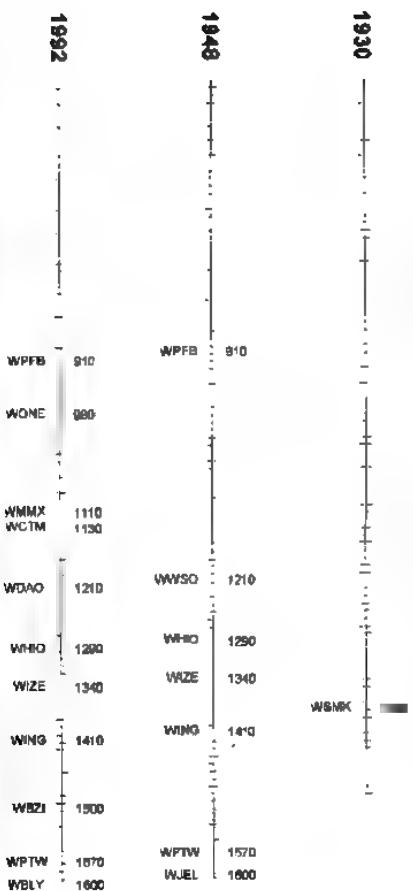
This edition of IDXA, a month late, is by Asian venues. Next time: Africa. Join us and update!

Now and Then John D. Bowker

Dial changes in AM markets, from 1930 to 1948 to 1992

DAYTON MARKET

(NOT SHOWN, WAMV IS HIGHLY RATED IN THE DAYTON MARKET)



Formats

Tony Fitzherbert
356 Jackman Avenue
Fairfield, CT 06430-1728

Changes in programming status; reported by listeners

Both Al Holtz and Dave Schmidt have sent along the information that WOGI-AM, 1210 kHz, in Philly became WGMP at 1:00pm, on March 18. WGMP, which stands for "The Game in Philadelphia", is now Philly's second all sports outlet. It will compete with essentially sports talk WIP-610 with a diet of Phillies baseball, Temple University sports, and American Sports Radio Network feed.

Soon I will be off on my annual railroad trip, this journey over the Amtrak boulevard of steel to Miami, New Orleans, Chicago, and St. Louis. Along with enjoying the commuter rail facilities and rapid transit lines in these cities, I hope to get some interesting station profiles from radio in Miami and Chicago...and of course some format info for this column.

Your Formats column is courtesy of The M Street Journal, Eric Buenaun, and Dave Schmidt. Here goes.....

590 WARM PA Scranton - Full service days, oldies, local news and info, sports, real live DJ's, talk and sports at night (DS).

600 KYNA AZ Flagstaff - Talk and oldies, moved from 690 kHz (M).

600 WESF ME Caribou - Back on the air, with religion (M).

630 KRCY NV Reno - Contemporary Christian (M).

700 KSUR CA Soledad - Classical/KSUR-FM (EB).

700 KCCV KS Overland Park - Religion/KCFC-FM (EB).

780 KIOR NV Reno - News and talk (M).

790 WMS IL Beardstown - Hot country/WMS-FM (EB).

830 KOEA MO Kennett - AC Monday - Saturday, Southern Gospel on Sundays (EB).

920 KDES GA Palm Springs - Oldies/FM (M).

950 WYSA AL Montgomery - UniStar standards (M).

970 WKHM MI Jackson - News and talk (M).

970 KZEP TX San Antonio - Taboo Spanish talk (M).

1270 WOCC NC Belmont - Talk (M).

1280 WAMS SC Anderson - Country/WRIM-FM (EB).

1290 KUMA OR Milwaukee - UniStar standards (M).

1340 KXEO MO Pineville - News and talk, Railnet (EB).

1360 KCNG MO Mountain Grove - "Solid Gold 1340" oldies (EB).

1370 KKSJ CA San Jose - Southern Gospel/KCNG-FM 106.9 (EB).

1400 WIEL NY Elizabethtown - EK-KEEN, Adult Standards by the time you read this (M).

1400 KTCM OR McMinville - FIP News and talk (M).

1450 WCKL MI Jackson - News and talk (M).

1450 WELY NY Elmy - Nostalgia/PEDY-FM (EB).

1490 WABD MS Biloxi - SMN Standards (M).

1500 WDEE MI Reed City - Oldies (M).

1570 KPKX TX Terrell - Country music (M).

1590 WAKER OH Akron - Drops talk for oldies (M).

WWLZ 1360

From M Street Journal comes word that Inner City Broadcasting, owners of WLIB-1190, in New York City, is trying to buy Fort Wayne's WOHO, so that either the new owner can shut down WOHO, or carry WLIB's (a directional daytime) Black oriented talk and Caribbean format. Evidently the city fathers of Fort Wayne are not overjoyed at the prospect of losing their best known radio station, or its airing a format which will not really serve WOHO's market.

Another oddity...the silent KOPY-1530, in Georgetown, Texas, has been bought by the Lower Colorado River Authority, to broadcast an all weather format, and, when appropriate, FLOOD WARNINGS! The new call? KOTR for "water"! And WJMK, WZDU, and WURO, all in Maine, and always simulcasting, have added Unistar standards...now the three stations can run totally automated. "Look" Ma...three stations and no board operator! How cost effective!!" Our column is courtesy of The M Street Journal, and Gary Houdek. Here it goes....

NRC Letter Opener

\$1.75 each! Sturdy yellow plastic...opens letters, cuts string, package wrapping, and more! Order from NRC Publications - NY orders, please add sales tax.

Graveyard Achievements

Bill Hale
495 Creekview Drive
Meridian, ID 83642-3241

Distance records for stations logged on graveyard frequencies

1490 kHz
Logged from Jan 1, 1980 to Present
Date of Last Update: March 12, 1994

*

indicates North American record holder



600 WFRM PA Coudersport
640 WISZ MI Zeeland
680 WBYF MI Rockford
830 KRHH MI Homelink
950 KAHJ CA Auburn
990 KIRK AZ Tucson
1150 KSAL KS Salina
1170 WFYL FL Bushnell
1230 KXUJ MT Hardin
1230 KREE TX Nacogdoches
1250 WOHL FL Live Oak
1260 KMRK KS Hutchinson
1270 KLOX TX Bay City
1290 KIVY TX Crockett
1300 WODA MS Jackson
1330 KNRK AZ South Tucson
1330 WOLD VA Marion
1340 WBET GA Lyons
1360 WNYN NY Rome
1370 WJUF MI Cadillac
1380 WEGP ME Presque Isle
1400 WXTI MS Jackson
1410 WORD MI Grand Rapids
1450 WBTY GA Cartersville
1470 KORD TX Henderson
1480 WADR NY Rensselaer
1520 WZCB FL Indian Rock Beach
1530 WESB MI Laker
1540 WENE OH Miles

All for now. Thank you to our contributors.

73's. —



WANA AL Anniston Charles Reh
WAJF Decatur Neil Woitish
WBHB Selma Frank Merrill
AFRN AK Campion Esa Hanninen
KBAS AZ Bullhead City Esa Hanninen
KCUZ Clifton Rick Carr
KYCA Prescott John Wilkins
KAIR Tucson Laurie Boyer
KZAO AR Dardanelle Roy Millar
KDSS Paragould Stephen Ponder
KOTN Pine Bluff Shawn Axelrod
KARV Russellville Carl Dabelstein
KWAC CA Bakersfield Steve Francis

KMET Banning Bruce Reynolds
KOWL Bijou Pete Taylor
KICO Calixto Bruce Reynolds
KRKC King City Frank Merrill
KTOR Petaluma Jim Hullker
KBLF Red Bluff Roy Millar
KDB Santa Barbara Richard E. Wood

KOWL South Lake Tahoe Esa Hanninen

KSVC Yreka Esa Hanninen
KBOL CO Boulder Bruce Reynolds

KGUC CT Greenwich Esa Hanninen
KIQQ Manitowoc Bruce Reynolds
KOLL Sterling Jeff Flynn
WGCH New London John Wilkins
WNLC New London Rodney Valdron
WTOR Torrington Russ Edmunds
WTRL FL Bradenton Russ Edmunds
WXVO DeLand Frank Merrill
WKEM Immokalee Karl Jeter
WMBM Miami Beach Ernie Cooper
WCKC Milton Mike Csorby
WTBB Vero Beach Steve Francis
WSR Winter Haven Don Treloar
WMCG GA Brunswick Shawn Axelrod
WMFM Cordelle Don Lynch
WMLS Monroe Don Davis
WSFB Quitman Jason Hustedt
WSNT Sandersville Don Lynch
WSYL Sylvania Ernie Cooper
Mike Csorby

Over the years there have been numerous loggings between 1600 and 1700 kHz of unusual Morse code signals. Many of these are the small Medfers, or small, very low-powered beacons run by private radio experimenters.

However, there are other signals that have mystified listeners for years. While looking through the Grove Shortwave Directory, I came across some excellent information that may help clear up these mystery signals. The Directory lists a series of frequencies and call identifiers for "Fishing Net Buoy and Beacons", identified as being used by offshore fishing boats.

It seems these boats or ships place radio transmitters on their nets or lines and use these beacons for locating via direction finding antennas at a later date. Each of these CW identifiers is made up of numbers and/or letters in seven patterns. The beacons use ROMs that are factory-programmed in the following patterns:

KA + 4 or 5 numbers

8/9W + 3 numbers

1 letter + 1 number

1 letter + 2, 3, or 4 numbers

2 letters + 1, 2, or 3 numbers

5 letters

1 number + 3 letters

As you can see, there are a lot of possibilities for identifiers. Many of the KA calls start with an 8 or 9. The others vary

widely; but many do start with an A or B. It seems that there are beacons on almost every frequency from 1612 through 1797 kHz, and several of the frequencies have more than beacons on them, so be careful!

Besides these fishing net buoys and beacons, there are also other radio location signals that can be heard:

DECCA HI-FIX: Uses one short, three long dashes per second

CWIC ARGOS: Two four-second bursts of uneven chirps.

Also found in this area of the radio spectrum are two- or three-number CW identifiers from aeronautical beacons. These are fore the most part from Central or South America and the Pacific regions.

If you are looking for more information, find a copy of the Grove Shortwave Directory, Eighth Edition. You can be surprised at the information you can find about medium-wave DXing in some shortwave publications.

I do hope this helps you out in your DXing. One final note: many of these stations may have to move to new frequencies as the AM radio band expands towards 1700 kHz. They are expected to move to the 200-400kHz range.

{Note: the Directory is available in looseleaf form from Grove Enterprises P.O. Box 98 - Brasstown, NC 28902-0098, (800) 438-8155, for \$29.95 with binder, \$24.95 without.)

WRLD	West Point (Laconia, AL)	Don Treiford	Runaway Bay, JMC
KCID	ID Caldwell	Charles Reh	
KKLB	Chubbuck	Esa Hanninen	Learnington
WKRO	IL Cairo	John Wilkins	Lemmenjoki
WDAN	Danville	Esa Hanninen	Wheat Ridge
WESL	East St. Louis	John Wilkins	Lemmenjoki
WOPA	Oak Park	Esa Hanninen	Wheat Ridge
WZOE	Princeton	John Wilkins	Lemmenjoki
WKBV	Richmond	Niel Wolfish	Wheat Ridge
WNNDU	South Bend	Steve Francis	Wheat Ridge
KBUR	IA Burlington	Esa Hanninen	Wheat Ridge
WDBQ	Dubuque	John Wilkins	Glen Rock, NJ
KMLQ	Indianola	Wayne Heinen	Winnipeg, MB
KRIB	Mason City	Jeff Ivman	Winnipeg, ON
KKAN	KS Phillipsburg	Olle Aan	Winnipeg, PA
KTOP	TOPEKA	John Wilkins	Winnipeg, PA
WFKY	KY Frankfort	Esa Hanninen	Winnipeg, PA
WKAY	Glasgow	Charles Reh	Winnipeg, PA
WTXY	Middlesboro	Tim Kerfoot	Winnipeg, PA
WOMI	Owensboro	Robert Kraner	Winnipeg, PA
WSIP	Paintsville	Niel Wolfish	Winnipeg, PA
WIKC	Bogalusa	Andy Rugg	Winnipeg, PA
KIN	Houma	Charles Reh	Winnipeg, PA
KRUS	Ruston	Steve Francis	Winnipeg, PA
WPOR	ME Portland	Charles Reh	Winnipeg, PA
WTVL	MD Hagerstown	Charles Reh	Winnipeg, PA
WARK	MA Havertown	Jerry Starr	Winnipeg, PA
WHAV	Milford	Christian DeHaes	Winnipeg, PA
WMRC	West Springfield	Jeff Falconer	Winnipeg, PA
WACM	MI Adrian	Esa Hanninen	Winnipeg, PA
WABJ	MI Manistique	Bruce Reynolds	Winnipeg, PA
WAND	MI Midland	Rodney Voldron	Winnipeg, PA
WMPX	MI Whitehall	Niel Wolfish	Winnipeg, PA
WPBK	MI Kalamazoo	Shawn Axelrod	Winnipeg, PA
KQDS	MI Daulton	Don Voldron	Winnipeg, PA
KLGR	MI Redwood Falls	Jerry Starr	Winnipeg, PA
WLQX	MS Biloxi	Roy Millar	Winnipeg, PA
WCID	MS Cleveland	Frank Merrill	Winnipeg, PA
WHOC	PA Philadelphia	Charles Reh	Winnipeg, PA
WTUP	PA Tupelo	Ralph Sperry	Winnipeg, PA
WFJL	PA Vicksburg	Steve Francis	Winnipeg, PA
KDMO	MO Carthage	Frank Merrill	Winnipeg, PA
KTRR	MO Rolla	Shawn Axelrod	Winnipeg, PA
KDRO	MO Sedalia	Shawn Axelrod	Winnipeg, PA
KDBM	MT Dillon	Esa Hanninen	Winnipeg, PA
KXGF	MT Great Falls	Roy Millar	Winnipeg, PA
KLYN	NE Omaha	Shawn Axelrod	Winnipeg, PA
KEZO	NE Laurel	Esa Hanninen	Winnipeg, PA
WEMJ	N H Laconia	Roy Millar	Youngstown

WLGW	NJ Atlantic City	Andy Rugg	Nuns' Island, PQ
WUSS	NM Los Alamos	Debra Holden	Orlando, FL
KRSN	NY Raton	John Wilkins	Wheat Ridge
KRTN	NY Rosedale Downs	Tim Hall	Rancho Bernardo, CA
KOAW	NY Amsterdam	Tim Hall	Port Carling, ON
WCSS	NY Batavia	Morris Sorensen	Little Silver
WBTA	NY Kingston	Russ Edmunds	Milan
WKIV	NY Malone	Frank Merrill	Learnington
WICY	NY Port Jervis	Charles Reh	Scarborough, ON
WDLC	NY Sidney	Don Treiford	Leavington
WCDO	NY Syracuse	Joe Kureth	Montreal
WOLF	NC Durham	Charles Reh	Montreal
WSSB	NC Eden	Russ Edmunds	Kinnelon, NJ
WLQB	NC Fayetteville	Tim Kerfoot	Weston
WFBL	NC New Bern	Dave Fox	Reading, PA
WRMT	NC Rocky Mount	Andy Rugg	Montreal
WSTP	NC Salisbury	Andy Rugg	Leavington
WSVM	NC Valdese	Charles Reh	Milan
WHSL	ND Wilmington	Frank Merrill	Toronto, ON
KNDC	ND Hettinger	Tim Kerfoot	Absko, Sweden
KOVC	OH Valley City	Olle Aan	Parker
WBEX	OH Chillicothe	Jeff Tyman	Marysville
WJMO	OH Cleveland Heights	Roy Millar	Douglasville, GA
WOHI	OH East Liverpool	Bill Altusukas	Fairfield
WMOA	OH Marietta	Chris Lucas	Alcoa
WMRN	OH Marion	Steve Francis	Alcoa
KOFC	OK Guthrie	Niel Wolfish	Winnipeg
KBIX	OK Muskogee	Shawn Axelrod	Winnipeg
KBKR	OK Baker	Esa Hanninen	Lemmenjoki
KRNR	OK Roseburg	Steve Francis	San Jose
KBZY	OK Salem	Esa Hanninen	Wheat Ridge
KBZV	PA Bradford	Niel Wolfish	Winnipeg
WESB	PA Bradford	Esa Hanninen	Lemmenjoki
WAZL	PA Hazleton	Mike Hardester	Modesto
WARD	PA Johnstown	Esa Hanninen	Lemmenjoki
WLPA	PA Lancaster	Niel Wolfish	Little Silver, NJ
WBBC	PA Levittown	Russ Edmunds	Alcoa
WMRE	PA Lewistown	Steve Francis	Lynn
WMGW	PA Meadville	Esa Hanninen	Clinton
WNBT	PA Wellsboro	Jeff Fajcik	Kirkland Lake, ON
WGCB	SC Beaufort	Morris Sorensen	Toronto
WGCD	SC Chester	Niel Wolfish	Leavington
WMRR	SC Greenville	Esa Hanninen	Lemmenjoki
WSDC	SD Hartsville	Charles Reh	Little Silver
KFCR	SD Custer	Charles Reh	Wheat Ridge
KORN	SD Mitchell	Steve Francis	Learnington
WOPI	TN Bristol	Robert Kraner	Chicago
WTXB	TN Chattanooga	Russ Edmunds	Learnington
WCSV	TX Crossville	John Wilkins	Little Silver
WROL	TX Knoxville	Charles Reh	Wheat Ridge
WJIM	TX Lewisburg	Mike Csorbay	Montreal
WDXL	TX Lexington	Andy Rugg	Montreal
KNOW	TX Austin	Carl Dabelstein	Lincoln, NE
KOST	TX Big Spring	Charles Reh	Learnington
KQTY	TX Borger	Joe Kureth	Uniontown
KNEL	TX Brady	Mike Csorbay	Canfield
		John Wilkins	Willingboro, NJ
		Roy Millar	Marysville
		John Wilkins	Wheat Ridge
		Shawn Axelrod	Winnipeg
		Jim Boehm	San Antonio, TX

WRLD	West Point (Laconia, AL)	Don Treiford	Nuns' Island, PQ
KCID	ID Caldwell	Charles Reh	Orlando, FL
KKLB	Chubbuck	Esa Hanninen	Wheat Ridge
WKRO	IL Cairo	John Wilkins	Rancho Bernardo, CA
WDAN	Danville	Esa Hanninen	Rancho Bernardo
WESL	East St. Louis	John Wilkins	Port Carling, ON
WOPA	Oak Park	Niel Wolfish	Little Silver
WZOE	Princeton	Steve Francis	Milan
WKBV	Richmond	Esa Hanninen	Learnington
WNNDU	South Bend	John Wilkins	Scarborough, ON
KBUR	IA Burlington	Wayne Heinen	Leavington
WDBQ	Dubuque	John Wilkins	Untontown, MD
KMLQ	Indianola	Esa Hanninen	Leavington
KRIB	Mason City	Jeff Ivman	Montreal
KKAN	KS Phillipsburg	Olle Aan	Montreal
KTOP	TOPEKA	John Wilkins	Montreal
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WKAY	Glasgow	Charles Reh	Montreal
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WOMI	Owensboro	Robert Kraner	Montreal
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WIKC	Bogalusa	Andy Rugg	Montreal
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KXGF	MT Great Falls	Roy Millar	Montreal
KLYN	NE Omaha	Shawn Axelrod	Montreal
KEZO	NE Laurel	Esa Hanninen	Montreal
WEMJ	N H Laconia	Roy Millar	Montreal

For Beginners

Jack Woods

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For Beginners

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- 1 -

A Walk Through the NRC Product Catalog NRC members have access to a veritable treasure of DX knowledge and experience through articles in the catalog and one booklet, "Beverage" is the ultimate antenna for medium wave reception. There are numerous Beverage

the N.I.C.C. Product Catalog. The purpose of this and Longwire Antennas Design and Theory. "For Beginners" column is to bring attention to some of the items in the catalog.

Over the years, many hundreds of articles on hundred articles in the reprint listings. Some of

For information on receivers and over one techniques there are two booklets and over one

all aspects of medium wave DXing have the articles appear in both the reprint lists and in appeared in DX News. Several hundred of those the booklets. Included are reviews of some articles have been selected for listing in the receivers which are currently popular, including catalog, and reprints are available at nominal the Drake R8 as well as others which are fading

cost. Some of those articles present information at the novice level. Others are technically advanced. For convenience, selections of articles on some subjects have been assembled in booklet form into history. Again, the articles vary in technical level from basic to considerably advanced.

Antennas are the heart of DXing. The catalog lists four collections of antenna articles in booklet form and a listing of 79 separate articles available

as reprints. Note here that some of the reprints **Users** is **DU**, a beginner's guide to the also appear in the booklets. Few DXers build their "lonesome". The best-known item in the catalog is the catalog is the **NRC AM Radio Log**. Now in the 14th edition,

antennas. Home construction of an effective loop antenna is not particularly difficult. Even those DXers who have bought or will buy a commercially-built loop antenna, home and updated annually, the AM Log is over 300 pages in 6.5 x 11 loose leaf format. All medium wave stations in the U.S. and Canada are listed by frequency, in large type with adequate space

construction of a loop is an inexpensive and informative project. The only advantage of ferrite core loops is compact size.

antenna before getting into organized DXing, although the name appears often in DX News, internationally and is almost essential for the first was built about 1920 by Harold medium wave DX King.

beverage, an engineer for K.C.H. was twelve miles long. The Beverage antennas used for medium wave DXing are not that long, but still will require considerable real estate. To function as a Numerous other items appear in the catalog, and their not being described in this article is in no way a reflection upon their value. The Product Catalog was included in the October 11, 1993

beverage, the antenna should be at least a half wavelength long, which means that to cover the medium waveband, a length of about 900 feet is needed. When correctly installed and located, the issue of DX News. A copy can be obtained by sending a 29-cent stamp to NRC Publications Manager, Ken Chatterton, P.O. Box 164, Mannsville NY 13661-0164.

DO YOU KNOW that the FCC rules are divided over 80 "Part 3" and that broadcasters

DID YOU KNOW that the FCC rules are divided over 80 "Parts" and that broadcasters need to know Parts 17 (antenna painting and lighting), 25 (satellite communications), 73 (broadcast services) and 74 (auxiliary broadcasting), plus Part 1 (FCC procedures)

DL-1 Delay-Line Phasing Unit ... by Mark Connolly - W4TOM

The DL-1 phasing unit is a delay-line based design similar to Gerry Thomas's Phase One. His 1985 article "The Phase One - A Delay Line Phasing Unit" is available through the NRC and IARU reprints services. Gerry's design was the first real usage of this technology as applied to medium-wave DXing. The Phase One was derived from an HF phaser presented by John Webb in QST (October 1982). The DL-1 updates the concept and uses a delay-line (RCD P420-600NS 100) that is somewhat less expensive (about \$20) and more available than the Allen Avionics LC300ZB50A specified for the Phase One. Unlike the Phase One, there are no broadband amplifiers in the DL-1. It is a totally passive unit which is meant to work into a companion regenerative preselector (Min-MWTF-3) when additional gain is required. Tests here (3 miles from 50 kW WRKO - 680) indicate that, in urban and suburban settings, running a broadband antenna (e.g. untuned longwire) into a broadband amplifier is just a bad idea. Even if the broadband amplifier is robust enough not to generate noticeable second and third order intermodulation distortion products with amplifier outputs around +20 dBm (local station frequencies), the receiver may not fare as well. You want to boost weak signals without boosting already-strong local stations 100 kHz or more away from the frequency of interest. There are very few instances in which a broadband-amplification-after-broadband-phasing scheme will result in as low a noise floor and as good immunity to spurious signals as a tuned amplification approach would. In many cases, at least with longer wires and a good receiver such as a IARU NRD-535D Drake R8, or Hammarlund HQ-180A, amplification is not necessary. This is especially true on "normal" nights when the desired DX is left after "pest" nulling can still be of appreciable strength.

The DL-1 has enhanced flexibility in controlling nulls because the levels of Antenna Line 1 and Antenna Line 2 are both adjustable; also, each line can be connected alone to facilitate leveling and appraisal of each antenna's directional pickup characteristics.

Noise-reducing principles have been incorporated by the provision for floating (non-chassis) grounds at the J3 and J4 inputs.

Principles of Delay-Line Phasing

In order to null out unwanted station "A" and hear subdominant (desired DX) station "B" when using two wires, the difference in phase between "A" and "B" on Antenna 1 should differ appreciably from the difference in phase between "A" and "B" on Antenna 2. This condition will most often occur when the "A" and "B" signals are coming from different directions and the wire antennas are oriented somewhat differently. What the phasing unit must do is to equalize the levels of Antenna 1's pest station "A" contribution to that from Antenna 2 and to provide a 180 degree phase shift of "A" from Antenna 1 to Antenna 2 entering the summation point. Level-equalization is most easily accomplished when the two wires are of similar length. If the equal amplitude / opposite-phase condition is met, station "A" is nulled, leaving "B" in the clear. Station "B" might be reduced somewhat as well, or it may actually be increased in level, depending on how different the phase difference ("A" to "B") is on Antenna 1 relative to that difference on Antenna 2. The occasional instances of desired DX stations getting nulled along with co-channel pests from a different direction can be minimized by having more than two longwire antennas available. Three wires give 6 possible pairing combinations (1 vs. 2; 1 vs. 3; 1-2 vs. 3; 1+3 vs. 2, and 1 vs. 2-3). If there are substantial angular spreads between the three wires, almost any nulling situation can be managed. Desired DX close in bearing to pests to be nulled can sometimes still be listenable if the vertical arrival (skip) angles differ. Use of Beverage-length (over 300 m / 1000 ft.) wires helps in such cases.

The goal of both the delay-line and the L/C type (e.g. MWDX-5) phasing units is to provide a continuously-variable phase shift of the signal contributions from one or both of the antenna inputs. The delay-line method provides continuous shift on one of the two lines; Line 2 in the DL-1 case. To provide a full 360 degrees of shifting, a 0-deg. / 180-deg. vector is provided by R2 across the T2 balun secondary and a 90-deg. / 270-deg. (approximate) vector is provided by R3 after the T2 balun secondary and a 90-deg. / 270-deg. (approximate) vector is provided by R3 after the delay line with range-switch S2 set to the tap providing a delay time of a quarter of a cycle of signal frequency (250 ns at 1 MHz). The 0/180 and the 90/270 vectors are summed to provide a variable-amplitude vector that can be "rotated" through a complete 360 degrees of shift. The delay time (tap setting) is a good deal less critical than you would think. I've labelled S2 positions as "low band", "mid-band", and "high band" but in reality, the setting of S2 is not too important.

The R1 (Line 1) potentiometer reduces the level of pest station signal from Antenna 1 in cases when it is substantially larger than pickup of the same station on Antenna 2. Without this capability, it would not be possible to equalize the Antenna 1 contribution with the 180-degree shifted Antenna 2 contribution and a null would not be produced.

The RCD P420-600NS-100 delay-line has 20 taps on it; these provide more delay times than needed. The four taps connected to S2 have been chosen for best performance at medium wave frequencies. I've tested the DL-1 on longwave, 160-meters, and tropical bands and nulls of

electrical noise and of steadier signals have been obtainable. Of course, a switch with more positions could be used at S2 if a given DXer wanted to utilize more of the taps.

The user will find that nulling with the DL-1 can be simpler than nulling with L/C design units because there are fewer knobs to tweak. The broadband delay-line based phasing approach does have as an advantage the ability to QSY (change frequency) to scan the band and to check parallel frequencies on both medium wave and shortwave quickly. These features can come in handy on Beverage DXpeditions and in other cases when a good opening is bombarding you with rare DX and you want to get maximum loggings in minimum time.

A tuned L/C phaser can provide somewhat higher signal levels than a broadband delay-line based unit such as the DL-1. Also, in urban areas, the preselection provided by an L/C phaser such as Super-MWDX-5 can reduce the likelihood of the receiver being overloaded and producing spurious signals. There are advantages and disadvantages to both delay-line and tuned L/C type phasing unit designs.

For adequate signal levels with the DL-1, the minimum suggested wire length for each antenna is 30 m. / 100 ft. Wires much shorter than Beverage length should be aligned for an angular spread of 45 to 135 degrees, or 225 to 315 degrees, between them. Slopes and Beverages may work best with a 180 degree spread as they would each have distinct inherent nulls in opposite directions. I use one slope that nulls about 10 dB to the west and another that nulls about 10 dB to the east. Phasing with that set-up is good because virtually no eastward signals come off the westward-favoring slope when the amplitude of its western pick-up is reduced to the same level as the fairly-low (180-degree shifted) western pick-up of the eastward-favoring antenna. The result is little or no cancellation of eastward Trans-Atlantic stations when pesky midwest clears are nulled. Indeed, stations easily heard on the phased wires (such as Algeria - 891 with WL5 - 890 nulled and England - 1089 with WBAL - 1090 nulled) are often just loud hiss on any loop used

Operating the DL-1: Initial Set-Up

The controls, as shown in Figure 1, are R1 (Line 1: level), R2 (Line 2: 0 / 180 deg. level), R3 (Line 2: 90 / 270 deg. level), S1 (Ground Mode: FLOAT or COMMON), S2 (Frequency Range), and S3 (Function: Ant. Line 1, Ant. Line 2, Null-a, Null-b). Connect one antenna wire to J1 and the other wire to J2. Floating grounds (e.g. sets of ground rods separated in distance from mains / receiver chassis ground) may be connected to J3 and J4 for reduction in electrical noise. Coaxial feeders from remote noise-reducing Beyma matcher style transformers can be connected to J1 / J3 (Line 1) and to J2 / J4 (Line 2). S1 is set to FLOAT if noise-reducing grounding is available; otherwise it should be set to COMMON. Frequency range switch S2 should be set to Low Band for coverage below 800 KHz, Mid Band for 800 - 1400 kHz, or High Band for above 1400 kHz. There is a fourth position of S2 (Auxiliary or "X"), an experimental setting which may occasionally yield better nulling, especially in the Tropical Band frequency range. The settings of S2 are approximate, not overly critical, and somewhat affected by antenna length. Settings of S3, R1, R2, and R3 are discussed in the Nulling Procedure to follow.

Operating the DL-1: Nulling Procedure

The first part of nulling is to determine which of the three level pots (R1, R2, or R3) has the greatest initial effect in setting up a null. All three pots knob pointers should first be set to "10 o'clock" where "8 o'clock" represents the fully counterclockwise (CCW) setting.

1. Set S3 to Null-a and observe the strength of the dominant "pest" station to be nulled as you run R1 through its range. If there is a distinct "dip" in strength and a possibly greater evidence of other stations, leave R1 at that null initiating setting and skip to step 8 below, unless the dip occurs at the fully clockwise (CW) (e.g. "4 o'clock") R1 pointer position).
2. Set S3 to Null-b and run R1 through its range. If a dip then occurs and R1 is not fully CW, leave R1 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R1 back to "10 o'clock" and switch S3 repeatedly between Ant. Line 1 and Ant. Line 2. If the pest station strength is noticeably higher on Ant. Line 1, adjust R1 such that signals from the pest station are about equal when S3 is switched back and forth from Ant. Line 1 to Ant. Line 2. If Line 2 had been stronger, return R1 to "10 o'clock". Put S3 on the null position (Null-a or Null-b) exhibiting the greater reduction in pest station strength (default to Null-a if there is no difference).
3. Run R2 through its range. If a dip then occurs, leave R2 at that setting and proceed to step 8 if null-initiation still hasn't occurred, set R2 back to "10 o'clock".
4. Run R3 through its range. If a dip then occurs, leave R3 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R3 to "12 o'clock" (center).
5. Run R2 through its range (know that R3's position has been changed). If a dip then occurs, leave R2 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R2 to "12 o'clock" (center).

6. Run R3 through its range (now that R2's position has been changed). If a dip then occurs, leave R3 at that setting and proceed to step 8.

7. Swapping the antenna inputs and/or trying a different S2 (Frequency Range) setting (before re-iterating steps 1 through 6 above) may help in the rare cases in which a null will not set up satisfactorily.

The second part of nulling is to maximize the null that has already been initiated.

8. Deepen the null through small, careful adjustments of all three pots (R1, R2, R3) in a repetitive sequence. Before doing this, make a mental note as to where the three knob pointers are set just in case you overshoot the ideal setting of one of the pots and have to backtrack. When you're done, previously covered DX stations should be audible.

Application Notes

If there are several stations in a given section of the band on similar bearings, null solutions (settings of S3, R1, R2, and R3) will be similar. The controls can often be preset to close approximations requiring only minor re-tweaking to get to a given null. For instance, from a New England QTH, null control set-ups for WMAQ-650 (ON), WLW-700 (IL), WGN-720 (IL), CBL-740 (ON), WJR-760 (MI), WBMM-780 (IL), CKLW-890 (ON), and WLS-890 (IL) do not vary much from a single approximate set-up of the four controls. That comes in handy in situations such as mine where the majority of test stations come from similar bearings. In the daytime, Maine stations (over 90 miles distant) can be logged through the phased remnants of normally dominant WEIM-1280, WORC-1310, and WEI-1440 (all in central Massachusetts 40 or so miles west of me) with a single setting of the DL-1 controls. This result is similar to what Gerry Thomas observed with his Phase One. Keeping a mental or written note of commonly used control settings employed in the removal of groups of pests will speed up the nulling process as a DXer gains experience with the unit.

Loop versus wire operation is not recommended because a broadband source (wire) phased against a tuned source (loop) will make a thorough null of offending-station audio difficult because of the different frequency response curves and group-delay properties of the two sources. Two loops of similar Q and gain could conceivably be phased by passing their outputs through the DL-1. The loop heads should be aligned at right angles to each other and at approximately 45 degrees to the pest station (one loop 45 deg. clockwise, one 45 deg. counterclockwise) of the bearing of maximum pest pickup). When two-loop nulling is nearly completed using normal DL-1 procedures, the last few dB of null may be "squeezed out" through fine adjustment of either loops' physical position and/or loop tuning capacitor settings.

As with any nulling system (phasing or looping), the best results will be on daytime ground wave and on lower angle skip at night. Nulls of low-band stations are somewhat more stable than those of high-banders. "Easy" nulls of daytime regional and "graveyard" stations (already exhibiting evidence of sub-dominant stations) should be pursued first in order to gain proficiency in adjusting the DL-1 controls.

High-angle skip, mixed groundwave / skywave, and various multipath / multi-skip situations are difficult nulls to set up on any looping or phasing system. Phased Beverages seem to do the best and Adcock arrays are supposed to work well also.

Amplification

Broadband amplification is possible, but not recommended with cheaper receivers such as portables or with any receiver in a high-RF urban area. The simultaneous application of a wide spectrum of MW, SW, and VHF signals to an amplifier or receiver input can be a challenge. By going from the 5" X 4" X 3" box suggested for DL-1 to a slightly larger case, broadband amplifier components could be mounted in the same case as the phasing circuitry. The added components would consist of a gain control potentiometer, a 3-pole / 2-position amplifier on/off switch, a jack for DC power input, and the amplifier itself. Circuits which have good dynamic range are the BBA-C1 (as used in the Super-MWTX-5), the BUF-A (or BUF-B) preceded by a 1:36 step-up transformer input. The recently published MWT-3 article describes a suitable tuned amplifier. Mr. Grove, and other vendors have commercially-available units advertised in Monitoring Times, Popular Communications, QST, and other hobby publications. Figure 2 of this article shows the Mini-MWT-3, a regenerative preamplifier that is simple in design. Documentation will be limited to this schematic and to Table 3 (a hole list) as it is, in essence, a reduced-complexity version of MWT-3.

The MWT-3 article and vendor catalogs (e.g. Mouser) will fill in other useful details for those wishing to build and operate the Mini-MWT-3.

DL-1 Construction Data

Table 1: DL-1 hole-drilling list

D = Hole diameter in inches.
 X = Horizontal distance, in inches, from the vertical centerline (VCL) on the side observed. Negative values of X are left of VCL; positive values of X are right of VCL.
 Y = Vertical distance, in inches, from the bottom horizontal edge of the side observed.

Hole loci are first marked on the box with a scribe and are then drilled with a .125" bit. Subsequently, as required, the holes are enlarged to the proper size by using progressively larger bits up to that corresponding to the final desired diameter.

Chassis Box = Mouser 537-TP-779 (metal), 5" X 4" X 3"

L E F T S I D E			
#	Comp.	Description	Z
1	R1	Line 1 pot. - shaft	-1.625
2	R1	Line 1 pot. - tab	-1.625
3	R2	Line 2 (0/180) pot. - shaft	-1.625
4	R2	Line 2 (0/180) pot. - tab	-1.625
5	R3	Line 2 (90/270) pot. - shaft	-1.625
6	R3	Line 2 (90/270) pot. - tab	-1.625
7	for S1	tie wrap hole (see note)	-0.125
8	S1	tie wrap hole (see note)	-0.125
9	S3	Function switch - shaft	1.0
10	S3	Function switch - tab	1.0
11	S2	Freq. Range switch - shaft	1.25
12	S2	Freq. Range switch - tab	1.25
13	G2	Internal ground lug hardware	1.875

R I G H T S I D E			
#	Comp.	Description	Z
1	J3	RF out - BNC Jack	0.0
		Re out - BNC Jack	0.5
			0.375

Note: El delay line is secured by a nylon tie-wrap through top Side holes 7 and 8.

The Challenging Crystal Set

For hobbyists demanding the ultimate DX challenge, Ray Cole's publication detailing step-by-step procedures in building a crystal set is for you! Only \$3.50, order from NRC Publications. (NY residents add sales tax)

Table 2: DL-1 "upper level" parts list.

*: Note follows parts list.
Vendor codes for this and subsequent parts lists:

Part	Description	Vendor	Stock #	QTY
1	-	MUR	537-77-779	1
2	-	MUR	274-16	5
3	chassis box	52413		
4	knob	MUR	539-CM510AK	3
5	capacitor, 0.1 uF	MUR	572-01881	2
6	screw, 6-40 X .375"	MUR	536-7311	2
7	solder lug, #4	MUR	572-00484	2
8	hex nut, 4-40	MUR		
9	red banana jack	MUR	274-662	2
10	black banana jack	MUR	278-105	1
11	J3	MUR	31V205	3
12	JL-2, 3	MUR	271-001	3
13	M4, 5, 6	MUR	298J220-150	1
14	R7	MUR	107A50	1
15	resistor, 180 ohm	MUR	101X04	2
16	switch, DPDT, on/on	MUR	11-6-165	1
17	RF transformer, 1:1	MUR	P2420-6000B-100	1

RS = Radio Shack / Many locations worldwide

Schematic = Figure 1

Item	Designator	Description/Value	Vendor	Stock #	QTY
1	-	-	MUR	537-77-779	1
2	C1, 2, 3	capacitor, 0.1 uF	MUR	274-16	5
3	G1, 2	screw, 6-40 X .375"	MUR	539-CM510AK	3
4	G1, 2	solder lug, #4	MUR	572-01881	2
5	G1, 2	hex nut, 4-40	MUR	536-7311	2
6	J1, 2	red banana jack	MUR	274-662	2
7	J1, 2	black banana jack	MUR	278-105	1
8	J3	MUR	31V205	3	
9	JL-2, 3	MUR	271-001	3	
10	M4, 5, 6	MUR	298J220-150	1	
11	R7	MUR	107A50	1	
12	S1	switch, DPDT, on/on	MUR	101X04	2
13	S2, 3	RF transformer, 1:1	MUR	11-6-165	1
14	T1	delay line, 600 ns	MUR	P2420-6000B-100	1
15	T2		MUR		
16	TZ		MUR		
17	Z1		MUR		

Mac. items: hook-up wire, buss wire, solder, labels "AS REQUIRED".

*item 2 note: for R1, R2, R3, S2, S3.

Table 3: Mini-MWT-3 (companion regen. preamp.) hole-drilling list

For X, Y, D parameter definitions and for drilling instructions:
see Table 1. For Mini-MWT-3 schematic, see Figure 2.

Chassis Box = Mouser # 537-77-779; 5" X 4" X 3"

LEFT SIDE

Hole	Comp. Desig.	Description	X	Y	D
1	G1	GND H/W - internal lug	0.0	1.125	0.125
2	J1	RJ source in - BNC jack	0.0	0.5	0.375

Mounting holes on C1 must be tapped to 6-32 thread.

*item 2 note: for looseleaf or comb binding.

Information is still useful today.

IRCA has reprinted a limited number of copies of the 5th Edition of the IRCA AM-FM Almanac. Several DK's have

expressed interest in obtaining the most recent Almanac edition from 1991, rather than waiting for the next complete Almanac in 1994.

◆ 1991 Edition – this is the edition sent to the press in October, 1990. Information is from 1988 thru 1990. Much of the

information is still useful today.

◆ Be sure to state your preference for looseleaf or Comb Binding. This edition is available looseleaf, ready to hole-

punch and place in a binder, allowing for easy updates. Comb binding is available at no extra charge if you request it.

The price for this reprint is the same as in 1991.

IRCA/AMC member: U.S. \$13.00 Canada \$14.00 Overseas Sea Mail \$14.00 Overseas Airmail \$17.00

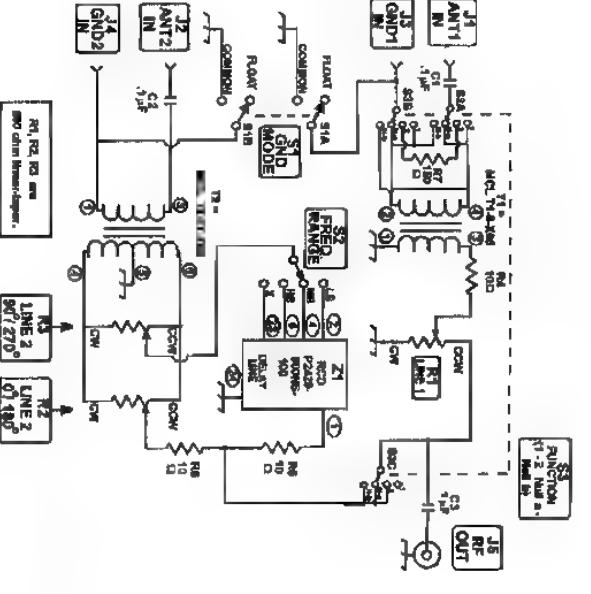
Nonmember: U.S. \$15.00 Canada \$16.00 Overseas Sea Mail \$16.00 Overseas Airmail \$19.00

Send check or money order, payable to "IRCA" in U.S. funds, to Phil Byrdway, IRCA Bookstore, 9705 Mary N. W., Seattle, WA 98117. Thank you!

Table 3 (continued)

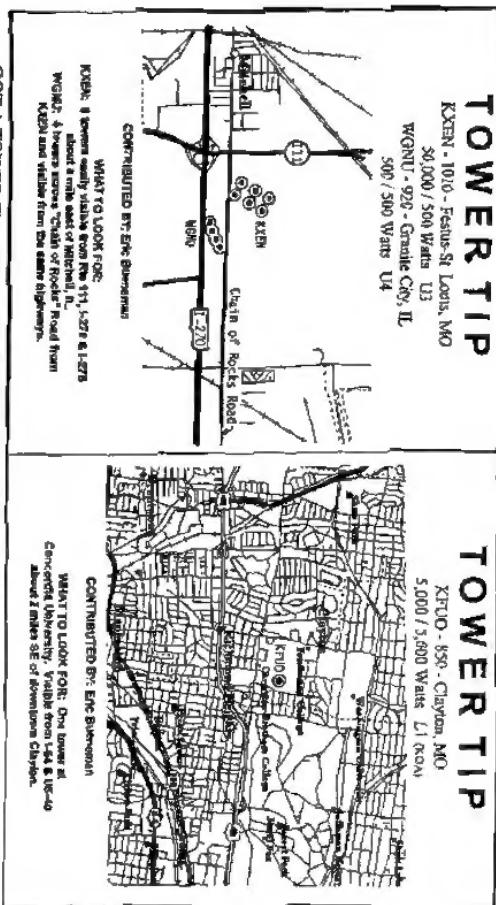
RIGHT SIDE		Description		X	Y	D
Bolt	Comp. Design.					
1	All	Regen. Front-End card - H/W	3	-1.5	1.5	
2	All	Regen. Front-End card - H/W	1	-1.5	0.5	0.125
3	All	Regen. Front-End card - H/W	2	-0.7	1.5	0.125
4	All	Regen. Front-End card - H/W	4	-0.7	0.5	0.125
5	J3	B+ input - phone jack			1.125	0.25
6	J2	RF out - BNC Jack		0.0	0.5	0.375
7	J2	Buffer amp. card - H/W	1	1.125	2.2	0.125
8	A2	Buffer amp. card - H/W	2	1.125	0.6	0.125
9	R2	Function switch - shaft		0.25	3.125	0.375
10	R2	Regen. Control pot. - shaft		0.0	0.75	0.3125
11	R2	Regen. Control pot. - tab		0.3125	0.75	0.144
12	GND	GND - internal lug		0.875	0.5	0.125
13	S1	bandswitch - shaft		1.125	2.0	0.375
14	S1	bandswitch - tab		1.125	2.0	0.144

FIGURE 1: DL-1 DELAY-LINE PHASING UNIT - SCHEMATIC



IRCA AM-FM Almanac - 1991 Edition Reprint

FIGURE 2: MINI-NWNT-3 REGENERATIVE TUNER - SCHEMATIC

**TOWER TIP**

KXEN - 1010 - Festus-St. Louis, MO

50,000/ 500 Watts US

WGNU - 920 - Granite City, IL

500/ 500 Watts US

CONTRIBUTED BY: ERIC BOWMAN

WHAT TO LOOK FOR:

KORE: 8 towers easily visible from Hwy 111, L-274 & L-275 about a mile east of Mitchell, IL.

WEIG: 4 towers across "Chain of Rocks" Road from KORE and visible from the same highway.

**TOWER TIP**

KXLU - 850 - Clayton, MO

50,000/ 5,600 Watts US

WGLN - 550 - Granite City, IL

500/ 500 Watts US

CONTRIBUTED BY: ERIC BOWMAN

WHAT TO LOOK FOR:

KORE: 8 towers easily visible from Hwy 111, L-274 & L-275 about a mile east of Mitchell, IL.

WEIG: 4 towers across "Chain of Rocks" Road from KORE and visible from the same highway.

GOT A TOWER TIP? SEND DETAILS TO JOHN BOWKER, 1811 FORT DUQUESNE DRIVE, SUN CITY CENTER, FL 33573. YOUR MAP WILL BE RE-DRAWN.

Target DX

Bruce Conti ac@easton.com
46 Ridgefield Drive
Nashua, NH 03062-1174*DXing 'smart', with shared tips and requests by NRC members*

Time for a parallel target list update, but first a brief introduction to parallel DXing.

The term parallel is used to describe when two or more radio stations are carrying the same program material. Everyone's familiar with parallels, with so many domestic AM stations now carrying satellite delivered talk and music programming almost full-time. It's easy to hear Bruce Williams' talk show, music from the Real Country network, or Oldies Coast-to-Coast from Canada, on several stations at the same time. Parallel DXing can help to ID such stations, especially if they're way down in the noise, by comparing the audio to locals on the same network. There are local non-network parallels as well, such as CKTS-900 relaying CIAD-800, and WVEI-1440 relaying WEF-1590. Consult the NRC Domestic Log and the IRCA's Almanac for more domestic network and relay information.

The following target list focuses on international DX. Parallels are perhaps more useful for International DXing. Suppose you aren't very good at identifying or translating foreign languages. Just match up a station with a parallel, and you could have one or two new ones for your log.

Referred to as synchros (short for synchronized), these stations are identifiable by a distinct echo. The echo is heard because there's a delay due to the amount of time it takes sound to travel from the program source to the relaying station. If you hear the echo, then you're hearing both stations. If you don't hear the echo, then you're hearing only one of them. Spain and the Canary Islands have synchros operating on several frequencies, too numerous to list here. More on Spain/Canary Islands synchros can be found in the WRTC11 or the recent Newfoundland DXpedition report.

Note the listing for Mexico-900. Referred to as synchros (short for synchronized), these stations are identifiable by a distinct echo. The echo is heard because there's a delay due to the amount of time it takes sound to travel from the program source to the relaying station. If you hear the echo, then you're hearing both stations. If you don't hear the echo, then you're hearing only one of them. Spain and the Canary Islands have synchros operating on several frequencies, too numerous to list here. More on Spain/Canary Islands synchros can be found in the WRTC11 or the recent Newfoundland DXpedition report.

International Parallel Target List

Alaska 670-KDLG // 840-KSDP // 930 KN5A. 891//981. ex-690//1610, no longer parallel. 927//1512. VO-A, 1530//1580, govt surplus stations for sale, so this // may not be around much longer.

CONTRIBUTED BY: ERIC BOWMAN

WHAT TO LOOK FOR: One tower in

Concord University, visible from L-274 about 1 mile SE of downtown Clayton.

Bermuda	BBC, 1160//15975//6175.
China	540//639//1035.
Colombia	R/CN, 750//770//1000.
Cuba	R/Rebelde, 500//620//670//710 //890//5025, ex-3365 (appears to be off-the-air).
Cuba	R/Keto, 590//660//760//930 //940//960 & others.
Cuba	R/Progresso, 600//740//880//890 //900.
Dominican Republic	R/Universal, 650//920.
England	BBC, 1053//1089.
France	Virgin Radio, 1197//1215//1242.
Jamaica	Frieda, 864//945, 1377//1404.
Jordan	Mugarr Radio, 1188//1251//1341 //St.Pierre-1335.
Lesotho	IBC/R-One, 580//620//700//750 //1800.
Mexico	RJordon, 801//1494.
Mexico	BBK, 1197//15975//6175.
Mexico	XEW-900//XEWB-900 (synchros).
Mexico	R/Education, ex-1060//685.
Montserrat	VOA, 1530//7405//11820.
Morocco	540//594//7044//1053 and VOA SW broadcasts.
Portugal	666//1233.
Russia	1386//1494.
St.Kitts	830//7510-KTBN.
Sao Tome	VOA, 1530//7405//11820.
Saudi Arabia	900//1440//1521//19870.
Spain	RNE, 684//774//855 & others.
Turks & Caicos	COPSE, 837//134 & others.
Venezuela	R/Vision Cristiana, 535//1330-WWVR NY.
United Arab Emirates	1476//11945.
Ukraine	972//1242//1377//1404.
Vatican	1530//5882//5245.
Venezuela	Ecos del Torbes, 780//4980.
Venezuela	R/Rumbos, 670//4970.
Venezuela	R/Tachira, 1000//4830.

I tried to limit the list to those stations consistently reported as parallel. Keep in mind that the stations may not carry the same programming 100% of the time. Good luck chasing parallels, and be sure to report any additions or changes to Target DX or IDX.



WOW-FM / WEBSAM

64 Church Street • Suite 201

Norfolk, VA 23510

750 Power

Geomagnetic Summary

Phil Bytheway
9705 Mary NW
Seattle, WA 98117-2334

High "A" values indicate possible auroral conditions

Geomagnetic Summary March 15 1994 through May 8 1994
 Soft copies of this report available through phil_bytheway@atk.com

Date	FLUX A	K	S_A	GEO	OTHER
3/15	87	36	4	active-mis	mis 0000/swa
16	86	16	5	quiet-active	swa
17	85	26	5	unsettled-mis	-
18	87	18	4	very low	-
19	89	13	3	quiet-mis	-
20	89	8	2	quiet-active	-
21	91	21	2	quiet-unsettled	swa
22	91	13	4	quiet-active	swa
23	92	13	2	quiet-active	swa
24	93	16	1	quiet-mis	swa
25	91	13	3	quiet-unsettled	swa
26	89	7	1	quiet-unsettled	swa
27	88	6	2	quiet	swa
28	88	7	1	quiet-unsettled	swa
29	86	6	3	quiet	swa
30	86	11	2	quiet-unsettled	swa
3/31	85	7	1	quiet	swa
4/1	82	5	2	quiet-unsettled	swa
2	79	25	6	quiet-unsettled	swa
3	77	48	4	unsettled-mas	mis 0900 mis 0600
4	77	30	4	unsettled-mis	mis
5	77	25	4	unsettled-mis	mis
6	73	30	5	unsettled-mis	mis
7	73	27	6	unsettled-mas	mis
8	73	31	5	unsettled-mas	mis
9	73	34	3	unsettled-mis	mis
10	75	25	3	active	mis end 0600
4/11	74	32	4	quiet	-
12	74	17	3	quiet-active	-
13	74	23	5	quiet-unsettled-mis	-
14	79	19	3	quiet-mis	-
15	80	15	5	quiet-mis	-
16	82	23	6	quiet-mas	-
17	82	63	3	quiet-mas	mas 2030
18	84	17	5	quiet	mas end 1500
19	85	16	3	quiet	-
20	86	11	2	quiet	-
21	87	9	2	quiet	-
22	85	7	1	quiet	-
23	85	6	2	quiet	-
24	83	9	2	quiet	-
25	83	6	1	quiet	-
26	81	7	1	quiet	-
27	78	4	1	quiet	-
28	77	2	2	quiet	-
29	78	5	0	quiet	-
4/30	75	1	2	quiet	-
5/1	75	20	5	quiet	-
2	76	39	5	unsettled-mis	mis 2100
3	74	32	4	very low	mis
4	73	32	4	very low	mis



As a special project, I am going to compile an audio tape of TIS messages from all over the US and Canada. I can accept either reel-to-reel or cassette tapes, and the announcement should be readable (not faint DX, although clear DX is OK). Please include call (if known), location, frequency, date and time with each submission. The length of the final product will depend on how many submissions I get... but I am hoping for at least two sides of a C60 and copies of the final product will be available for a nominal charge. My deadline is August 1 1994. Send tapes to: Phil Bytheway, 9705 Mary NW, Seattle, WA 98117.

NRC E-Mail Addresses ... compiled by Paul Sweetenhen (PSWEETNER@AOL.COM)

During the past year or so, the number of NRC members who joined others with E-mail (electronic mail) addresses on the information superhighway burgeoned. E-mail address holders correspond directly and so quickly now that they have dubbed USPS-delivered messages "Snail Mail"!

Those who have E-mail addresses have a computer and a modem which allow them to tap into phone lines. They have joined an electronic bulletin board or service, such as Fidonet, America On Line, Prodigy, CompuServe, Delphi, or one or more of several others, and obtained a unique E-name, which usually is limited in length and can consist of numbers or letters or both. The government sponsored Internet, in turn, connects these systems (and many other entities) and passes messages back and forth at a nominal fee or just as a service of the electronic service.

E-mail is extremely fast. I have received a message within two minutes of posting a message to an individual who belongs to a completely different service than I do. It also does not protect the anonymity of the sender, so that the recipient never has to put up with "hate" mail. It is also quite convenient, as unlike the telephone, one can retrieve messages from the service at leisure.

Disadvantages do exist. User fees can mount when one is composing replies while on-line; and those who receive many messages, may find that downloading (retrieving) messages can take some time and effort.

Nevertheless, most E-mail address holders want to be able to correspond with others via electronic means. The following is a first attempt to compile E-mail addresses of NRC members who have either corresponded with me or specifically let me know that they wanted their E-mail addresses published in DX News. I've listed the complete addresses as furnished to me, and when an individual has more than one address I've tried to list the name of the service except for AOL (America On Line), Prodigy, and CompuServe, which are obvious. Please note that you may not need all of the address to correspond with

someone who is on your own service. Let me know of any errors, and I'll correct them in the next DXN. Finally, if you're not on the list, send a Musing to Dave Schmidt and include your E-mail address. We'll update this list again in a few months.

Steven Alexy steven.alexy@HAL9K.com
 Barry S. Finkel BS141%ANLVM.BITNET@UICVM.UIC.EDU
 George C. Greene 74367.3305@CompuServe.com
 Bill Hale MTH112A@prodigy.com
 Bill Hardy 73201.2263@CompuServe.com
 Nancy Hardy [\(same as Bill, except\)](mailto:FMMT21B@prodigy.com)
 Earl Higgins Higgins@amse.indie.com
 Ron Musco MUSCOKI@nsdw1.itec.com
 Stephen H. Ponder r.dangelo3@genie.geis.com
 At Work:

At Home:
 AI Pete 71212.1644@compuserve.com
 Jim Renfrew jimrenfrew@aol.com
 Richard E. Robinson rrobinson@msn.com
 Gray Scringour rerobins@noeale.uncc.edu
 Rocky Stone 70514.3561@CompuServe.COM
 Guitpickr Guitpickr@AOL.COM
 Fred Vobbe Fred.Vobbe@16.n234.21.fidonet.org

RFI From Household Electronics

by Perry F. Grabill, Jr., W3HQX

I recently discovered that our late-model TV set was emitting radio-frequency interference throughout the long-wave band WHILE TURNED OFF! Unplugging the power cord killed the RFI, and reconnecting it started the interference again.

This is a Zenith 20" Sentry 2 MTS Stereo Color TV Model 5J-2065-W, with infra-red remote control. The interference was manifested as buzzy, slightly broad and unstable signals, apparently harmonics of a 36.96 fundamental frequency from their spacing. The signals were strong enough to drown out weak NDB stations. They could be nulled in the Drake R-8 with my 2-ft. homemade loop; the null was in the direction where the local TV cable system's coax entered the building.

For this reason, I had attributed these signals to radiation from the cable system; however, they persisted when I disconnected the cable at the outdoor lightning arrester and splitter. The signals did disappear when I opened the main a-c power switch, showing they came from inside the house. After restoring power, I used a battery-powered Sony ICF-2010 on the long-wave band as a search receiver tuned to one of the harmonics. Eventually, I found the source of these signals was the turned-off Zenith TV located in the bedroom next to my listening Post. Right at the TV set, the harmonics were strong enough to light up all of the Sony's signal strength LEDs.

Disconnecting the cable system's coax from the TV did not affect the QRM as observed in the shack, nor did adding an a-c line filter at the power outlet for the TV. The only action affecting the offending signals was to turn off the TV or to disconnect its power cord.

Incidentally, the harmonics of the 36.96 kHz radiation were not limited to the 190-530 kHz NDB band; they were found well up into the shortwave spectrum. In fact, I derived the frequency of 36.96 kHz by zero-beating the 100th harmonic at 3656 kHz with the Sony's BFO.

I have no way of knowing whether this behavior is generic to some feature of the TV set, such as the remote control circuitry or not; it could possibly be a malfunction. I checked with a local TV shop franchised by Zenith, and the technicians weren't able to help me. I plan to write Zenith for their opinion.

This experience prompted me to check other household electronics equipment for radiating signals while turned off. The VCR associated with the Zenith in the bedroom was clean, as was the older Zenith TV in the living room. The living room VCR, a Sanyo VRH-3350 VH5 HQ Model with infrared remote control, radiated a strong signal at 525 kHz, with fairly strong second and third harmonics. However, these signals weren't audible in the shack two rooms away.

Our AT&T Model 5560 cordless phone in the living room was generating a 300 kHz fundamental signal, with harmonics up into the SW region, while on-hook. Going off-hook had no effect on this signal. It and its harmonics could not be heard in the shack; they were detected only in the immediate vicinity of the 5560.

The Brother Model 600 Facsimile machine in the shack generated spurious signals at the low end of the AM broadcast band while in a stand-by mode. The actual frequency varied according to the answer mode; for Auto Answer, the frequency was 557.9 kHz; for Manual Answer, it was 561.7 kHz; for TAD (Telephone Answering Device) it was 554.2 kHz. Again, harmonics from this equipment extended up into the SW spectrum. This machine was located four feet from the Kiwa loop for BCB DX'ing. I had realized previously that the Brother fax caused interference when operating, but never considered it as an RFI source in standby.

The last piece of radiating turned-off equipment turned out to be the Kenwood R-5000 general coverage receiver stashed away in the basement until the shack is remodeled. It was plugged in to keep the memories alive and minimize any problems from humidity. The Sony showed a whole series of strong signals in the beacon band with a spacing about 17.56 kHz apart which disappeared when the power cord was disconnected. Interestingly enough, turning the R-5000 on caused these signals to change from a pure cw beat note to one modulated with a buzz which remained even after it was turned off. However, unplugging it from the power and reconnecting it restored the pure cw beat. These signals couldn't be heard a few feet from the R-5000; however, one wonders what would happen if it were in the shack with the Drake R-8 and its 2-ft. loop.

Because of these findings, when I want to DX the 190-530 kHz beacon band late at night, I unplug the offending TV set, along with the automatic night light in the bedroom which generates broad-spectrum noise interference. I also turn off the solid state tuners that control the front and side porch lights, and make sure that the 20-watt fluorescent light in the kitchen used as a night light is also off. The cabinet humdifter in the kitchen uses a solid state speed control for the fan and moisturizing pad, so I turn that off too. After all this, I sometimes find that the atmospherics are too strong to make listening worthwhile, and turn everything back on and go to bed!

Musings

of the Members

Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers or the National Radio Club, Inc.

Dave Schmidt
P. O. Box 11502
Wilmington, DE 19850-1502

Please see local per issue, submit double-spaced only.

BRUCE REYNOLDS - 917 GOODWIN AVENUE - SAN JOSE, CA 95128
Well, after nearly 16 months of silence, 1370 is again occupied 4/5 as 'Magic KXJ', emulating the nostalgia format formerly heard on KRCB-610. Other new catchers: 3/31 CKBD-600 at 11PM for a call change; 4/1 KVTP-540 at 6AM with religion; and 4/8 KCMC-580 at 6AM with newstalk format KTMK-750 in very full with talk at 6:22AM, and KOM-1360 at 6:35AM with sports talk for new call. These latest additions bring my 3 year total of stations taped to 498. Various were received from the KART & KCVR DX tests, but several reports are outstanding to other DX Testers, generally the only ones I report these days. The 4/29 DX NEWS mentioned that KTD-1500 was silent. I can't normally hear them anyway at this location because of the local on 1500, but based on the content of a news article of a few weeks ago, I suspect they are off temporarily for the installation of new equipment. The local paper reported that KGO-810 was silent for 90 minutes on the night of 4/21 due to an equipment malfunction, but I missed it. According to Herb Caen's column in the 4/29 SF Chronicle, the FCC has approved the sale of KHT-1550 to Westinghouse, which will change it from classical to an all news station with the same KXK calls as the TV station owned by Westinghouse. Caen says the format change could come as early as 6/1 and that KHT will scrap the all night show as of 4/30. There are plans to up the power to 100k, so there's a good chance for considerable silent time in the short term.

JIM REFREY - 61 WILCOX STREET - ROCHESTER, NY 14607-3832

Well, in talking with BEN DANGERFIELD on the phone last night, I realized I hadn't sent in a MUSING in some time. I've been dxing since about age 12, first with a Heathkit that I built with my dad's help, and now with a Hammarlund FGQ-5, Sony 2000. My last logging way back then (.67) was WHRO-640, my most recent logging this week were WSAL-1530 & WGNM-1210 (both call changes). Best logs of the 93-94 season include KMTU-770, St. Vincent-705, KUGH-770, WMSR-1170 (PR), CFP-1000, & CRI-1140. Varied during this season were new countries Columbia & St. Lucia, new province NB, & new states CO & SD. I've logged almost 1500 stations from Rochester since 1976, from 43 states & 47 countries. After my 1st year of parenting our 1 year old son, I have to admit that dxing has taken a real dive. These days, I only manage to tune in on Friday or Saturday nights. Even then I can't give it my full attention, because I'm busy preparing my Sunday sermon. You'd never know from reading IDX, but I am a presbyterian minister working with 2 churches, one in the city of Rochester and the other in the rural town of Bergen. Both churches are struggling to survive from week to week, so I keep very busy. And with so many IDX reporters, lately, the rest of my free time seems to go into typing! Actually, some of our most prolific reporters send their loggings in by E-mail, which considerably shortens the typing time! Thanks to everyone who makes dx news happen! (Welcome to this side of the fold, Jim, you're doing a great job with IDN! -DWS)

JOHN TUDENHAM (W4JEP) - 2824 MISSOURI - JOPLIN, MO 64804-2755

We had a good time at the St. Louis get-together 4/16-17, ERIC RUENAN did a great job! We enjoyed meeting the same dxers we had seen last Nov. at Roella, MO plus several more. On the local scene, KESB-1310 has changed formats and is no longer 24 hours, now operating 6:30A-11M. They simulcast their sister FM KIXQ-93.9 except for mornings and evening drive time when they have local news & sports talk. They also now carry KC Royals baseball and St. Louis Blues hockey plus local college sports. Their FM is CW. A very good move since the FM is the top rated station in the area. Have logged one new station on 1300, probably ex-KAM. Thinking of another MO get-together here in Joplin, maybe in late summer/early fall. Have found a local motel with reasonable rates. If anyone is interested, let me know! 73

BILL ALISUSKAS - 7553 HILLSIDE DRIV, - DONALDASVILLE, GA 30134
Hello again! It's been quite a while since I've MUSED, but not being too active dx wise makes it that way. Question is what happened in Cincinnati? Early this week, there was a tape loop on 1530 saying WXYB moved to 550, now WSAI is parallel on 1360 & 1530, tape loop was on 1360 on 4/14 advising the change, they were parallel this AM 4/15. Who's going to fill 1360? Anyone, any info on this mess? Also, as you know, WPTF-1360 is gone, the IRS shut them down for \$95,000 in back taxes. I really doubt they'll be back, there goes radio job #2! Otherwise, only one big item, noted CRB-10G way atop the channel 4/8 6:24 AM, just time noted here. Totals - who knows? My records are in awful shape. So much for now, hope all have a good summer!

GERRY BISBRO - 126 DYER STREET - NICEVILLE, FL 32578
 ----- It has been a quiet winter here in Niceville, a little colder than normal. I had less DX than usual, as well, mostly due to grad school & work. Can't complain, though, as I added MD, through WCRB, to the log from this den.

Thanks! DAVE! Several of the tests came through well, but New England continues on the most wanted list from here. Looking over past logs, I've discovered I've never logged VT from any location. WDRY didn't show, either, to keep my record perfect! I make a habit to send a thank you card to stations which test, but I didn't hear despite trying. I won't mention any calls, but I have 3 veries from this season, verifying receptions I did not make. What do you other MUSERS think? (thanks) for tests I didn't hear and get veries that really aren't or should I write only if I hear them? Local radio seems to be pretty stable here in Okaloosa County. WWHITE-40 is still silent since that time. Eglin AFB now has a new public service radio station on 530, 10 watts. Its purpose is for public affairs information, severe weather warnings & military recalls. It gets out about 15 miles during the day. 73s

ERIC BUENEVAN - 631 COACHWAY LANE - HAZELWOOD, MO 63042-1347

----- The St. Louis DX get-together held over the 4/16-17 weekend has been declared a success for the most part. MO was the most represented state, in attendance were yours truly (Hazelwood), JOHN TUPENHAM & wife BICKY (Joplin), GUY MORGAN (Stockton), WALT BREVILLE (Arlington), loop designer L ENRICO, Bob Rick (Coeur d'Alene), WPTDA member Keith Smith (St. Ann), CBer David Box (St. Louis), IL was represented by JOHN CALVERMAN (Mt. Vernon) & WPTDA member Bill Erberg (Dixon). ERNIE WESOLOWSKI came in from Omaha, NE & he brought a friend of his, Don Payne from Lawwood, KS for a grand total of 12. The gathering started with discussions on antennas and DX, Bob Flick & David Box offered further input with antenna & crystal set designs. After lunch, 8 papers made the trip to KCBW-89.5 where I showed them the station, and how things are done at a college radio station. Following that and a short discussion period at the hotel, the 45 minute trek to Wentzville, MO was made to the shack of Vern Jackson WAFCR, who runs the amateur radio bulletin station on 1860kHz. A very detailed tour of Vern's broadcast style set up and a look at his 110' tower soon followed. Back to the hotel for more discussions, and a trip home to pick up more veries, a verie arrived from Arter dinner, a DX session followed mostly on FM, demonstrating an FM/VHF-TV loop that GUY MORGAN had made. The rooms had AM/FM radios built into their TV sets so I tried the AM side in MY room, and noted WAD-1560 dominating 1AM 4/17. The WAD move from 1400 to 1300 was also confirmed. Despite the success of this GIG, St. Louis will not be in the running for the 1995 NRC convention but may bid for the 1996 convention. In local changes, KXOR-630, by the time you read this, will have changed to KJSL, and switches to Christian programming. 630's silence allowed me to og several newies on 620, 630 & 640. WESL-1490 is once again noted in AM Stereo. The DX season has wound down here with the final totals for the season (9/1/93-4/18/94) as follows: 234 heard (237 since 3/1/93), 100 verified (a 43%, return rate), several hard to hear states were logged (several thanks to DX TEST & 2 stubborn non verifiers (WPAW-650 & WHAM-180) finally answered! As of 4/18, DX TEST holdouts include KSD-550, WLS-560 (that may not have been on, BRIC-PBS), WPRM-610, WURN-730, WCRB-1270, WPTN-1340, WNCN-1370 (tentative), KWOW-1450, WSSR-1510 & KENN-1590. Most recent recent: WTAZ-1240 (with WOBM-101.7), RECO-1190 & WJIC-1510, as noted. Thanks to DAVE for the WNRK-1260 GM, even though the test wasn't verified, and thanks to all who have done a good job for the NRC CPC this year. 73 & good DX!

DAVE SCHMIDT - P O BOX 11502 - WILMINGTON, DE 19850

----- It looks like the combo of WYCH-740/WMEC 89.5 may be running 24 hours by the time you read this. The 740 AM one worth trying if you didn't get it on the DX feed last year, all of 5 watts! Sorry about that B&W D. ! A 6/1 airdate for WYHL-89.1 looks like it may be taking place, construction moves along with that one. BOB LENIO, CG at WARM-590 advises that WYCK-1340 is now silent, having lost the lease on the ground of their transmitter/tower sight and having it taken down already! Missed the WGR-1460 DX TEST on 5/7, the sandman got me on that one. ERC mentioned a few issues back or an overload problem on his SW2 using batteries such as Duracell, Energizer, et al, and not being able to locate the old, standard mercury 9 volt batteries, which for some reason, do not overvoltage (mine does it also). Everybody still has the silver 9 volt "classic" available, it is #216, and I have found them locally for 2 packs for \$3 (4 batteries). Remember, now that the season is just about wound down, now is a good time to have your set checked, and may I make the offer for R390A & H0180 repairs & alignments by John Tieck & myself. Please contact me at the above address if you may be interested for prices, shipping, etc. Please make an effort to drop us a few lines, let us know what you thought of this past season, what your goals are for the upcoming season, what your best catches have been, anything which is related to what this is all about...DX! 73 & CUNA (weeks that is!) *(Signature)*

1994 National Radio Club Convention

September 2 - 5 Labor Day Weekend
 Nashua-Manchester, NH

New Hampshire, The Granite State, welcomes the National Radio Club for its annual Labor Day weekend convention. The convention site is central to all that New England has to offer. The mountains, seacoast, and historic Boston are all within an hour's drive.

Program of Events

The convention program has something for everyone. Upon arrival on Friday night, convention goers will receive a souvenir packet loaded with information on how to get the most out of your stay in New Hampshire, including maps and radio station information. The hotel's Presidential Suite will be open for NRCers to renew old acquaintances and make new ones. Radio station tours are scheduled for Saturday morning, to include the WKBW-1250 studio and transmitter site, and the "mini-WLW" WFEA-1370 transmitter site.

Saturday afternoon, a group will be assembled for a tour of the Anheuser-Busch brewery and Clydesdale hamlet. The entire process is explained on the tour, from grain storage to brewery aging to bottling. Participants are then invited to a beer-tasting. Following the beer-tasting, its a short walk through beautiful flower gardens to the Clydesdale hamlet, to see the worktowers that have become a Budweiser trademark.

Saturday night is reserved for the traditional banquet and auction. Banquet guest of honor Mr. Bob Bittner, WJIB/WKBR owner and manager, will speak about his experiences in AM radio. Don't forget to bring your bumperstickers, hat lists, coffee mugs, T-shirts, and other radio related items, along with DX gear, to donate to the auction and support your NRC! Door prizes will also be awarded.

Sunday seminars will cover such topics as FCC rules, broadcasting, reception reports, and phasing techniques, along with the NRC Quiz. A trip to the seacoast for some TA DXing may also be on tap as NRCers will be free to step out on their own and discover New England.

Convention Hotel/Reservations

The convention will be held at the Ramada Hotel at Merrimack. The hotel is located at Exit 11 of the F.E. Everett Turnpike, just north of downtown Nashua. The hotel features the Sporting Club restaurant and lounge for breakfast, lunch, and dinner, with room service available. For exercise, try the indoor swimming pool or take a quiet walk along the trails in the Merrimack Forest. The entire hotel is handicapped accessible.

A block of 50 rooms are set aside at special rates of \$45.00 single/double and \$55.00 triple/quadruplex, not including 8% tax. Rates and rooms are guaranteed available until August 26. The hotel is now accepting reservations at (800)922-3477 or (603)424-6181. Be sure to mention the National Radio Club convention for special rates.

Transportation

Air service is available from two convenient points -nearby Manchester Airport, and Boston's Logan Int'l Airport, one hour's drive away via U.S. Route 3. The hotel offers complimentary van service to and from Manchester Airport M-F 8am-10pm, given 48 hours notice. Several independent shuttle services operate to and from Manchester, Logan, and Boston's Amtrak train station. Make reservations directly with one of the following, or consult your travel agent.

*M and L Transportation (617)665-7791 Logan hourly service.

*Minuteman Airport Service (508)649-9820 Manchester, Logan, and Amtrak.

Individuals are responsible for their own room reservations and transportation to and from the hotel. The NRC will not be involved in room sharing and airport transportation arrangements.

Convention Registration

A registration fee of forty dollars (\$40.00) per person (\$16.00 children under 12), which includes the banquet, is payable in advance. Checks payable to the National Radio Club may be sent to NRC Convention, c/o Bruce Conti, 46 Ridgefield Drive, Nashua, NH 03062-1174 before August 26. Please register before August 26, to insure seating for the banquet. Specify whether you prefer chicken or beef. For further info, send a SASE with your specific inquiries to the same address. Hope to see you for the New Hampshire 1994 NRC Convention! 73s